

TAP environment variables - parameters - configurations

Saturday, July 21, 2018 8:16 PM

ta9 - Shortcut used to display all the environment variables in oracle as ta in sybase
tam - Triple A Menu

<\\temenosgroup.com\wealth\devtools>

[\\LAUWINSOFDEP\EnvTeam\\\$Environments\CSS](\\LAUWINSOFDEP\EnvTeam\$Environments\CSS)

Export AAAOLDADMINMENU=1 to retain the old administration menu

Local Executable Running:

```
export AAA_RDBMS_SHORTNAME=ora
. aaaprofile
. tools/init.sh
. tools/aliases.sh
. $AAAHOME/tools/aaa_library.sh
. $AAAHOME/tools/aaa_library.$[AA_RDBMS_SHORTNAME].sh

export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$AAAHOME/lib64/Linux
export LIBPATH=$LD_LIBRARY_PATH:$AAAHOME/lib64/lbm
export AAABIN=$AAAHOME/bin/Linux
export AAAMSG=$AAAHOME/msg
```

```
export AAA_EDITRIGHTS_PCK_PRM=TRUE
export AAAEDITPACK=TRUE
export AAAEDITTEST=TRUE
```

```
export AAAFUSIONTRACEALLFIELDS=TRUE
export AAAMACCTRACE=1
```

```
export AAASCRIPTTRACE=25
export AAASCRIPTTRACEMASK=15
Export AAASCRIPTTRACETHREAD=1
```

Different script trace flags.

```
# SCRIPTTRACEMASK_DEPEND    1
# SCRIPTTRACEMASK_TIMER      2
# SCRIPTTRACEMASK_EVAL       4
# SCRIPTTRACEMASK_EVALIN     8
```

```
export AAASHOWALLUDEINGUI=1
export AAASHOWDEADLOCK=YES
export AAASQLDUMP=1
```

```
export AAASQLTRACEFMT=1
export AAASQLTRACEPARAM=2
export AAASQLTRACE=3
export AAASQLTRACETHREAD=1
export AAASQLTRACEDERIV=1
```

```
export AAASCRIPTNONEWIN=1
export AAASQLTRACEMAXLEN=1
```

```
export AAAEVENTTRACE=YES
export AAATRACEFINFCT=3
export AAATRACEDOMAIN=1
export AAATRACEHIER=1
```

```
export AACHECKSTRATLIGHTTRACE=TRUE
Export AAADUMPSTRATHIER=1
export AAATRACEALLRPC=1
```

```
export AAATRACESELECTSCREEN=1
export AAAUSEUSERAPPLPARAM=1
```

```
export AAATRACEALLRPC=1
```

```
export AAAHTTPCLIENTLOGFILE=httpClient.log
export AAAJSONLOGFILE=json.log
export AAALOCALCACHETRACE=1
```

```
export AAAEVALENTITYTRACE=1
export AAAEVALENTITYTRACEFULL=1
export AAATRACESELECTSCREEN=1
```

```
export TIMERMASK=1
export AAAPERFMON=1
export AAATRACEDERIV=1
export AAAEVENTTRACE=TRUE
```

```
export CONNECTIONPOOLTRACE=1
```

```

export AAAPRINTALLMESSAGES=1
export AAAPRINTCONNECTFAILED=1

export AAAMEM=1
export AAAPERFMON=1
export AAAEXTSVCTRACE=1

export AAADFTFUSIONQUICKVALIDATION=fuinQuickValidation.txt
export AAATESTFUSION=1
Export AAAMAXFUSIONDUMPERROR=1
export AAAMUTEXTRACE=aaamutex.trc
export DUMPSERVLISTNAME=$AAAHOME/msg/servDump
export AAAIMPORTLOGALLERRORS=1

Fusion not be in synch with import set
AAAIMPORT_NOTFUSIONSYNCH=1 in aaaprofile.

export GATADAPT_APPEND_MODE=1
export GATITPERFTRACE=1
export DEBUG_GATADAPT=9
export DEBUG_GPA=1
export AAA_GATEWAY_OUTPUT=$AAAMSG/gatway_output.log
export GATITDUMPTIME=gatitdumptrace.log
export DTX_DEBUG=TRUE

export AAASUBBDEBUG=1
export AAASUBDTRACE=1

export AAADISPATCHERWAITSCHEDULER=1

export AAADISPATCHERLOGVERBOSE=1
export AAADISPATCHERLOGEVENTS=1
export AAADISPATCHERSTATUS=5

export AAADBMSG=1 // For fusion debug message to print

# Some other settings for the Triple'A GUI time out rules
AAAXCONTIMEOUT=600
AAAWARNTIMEOUT=1200
AAAEXITTIMEOUT=300

# PARAMETER FOR TA SERVER START
#####
# Check during 30 seconds if the TA server is up.
MAXRETRYTIME=30
# Number of tries to launch the TA server when it is launch in forever mode
MAXRETRYFORV=101
export MAXRETRYTIME MAXRETRYFORV

# Desactivate workaround about ENDIAN Sybase problem (DDV - 120222)
AAADISABLEENDIANWORKAROUND=1
export AAADISABLEENDIANWORKAROUND

# Current setting for Triple'A script/SQL width output size
AAPAGESIZE=10000
export AAPAGESIZE

# Thread id and milliseconds in log files
AAALOGPRECISION=1
export AAALOGPRECISION
AAASQLTRACETHREAD=1
export AAASQLTRACETHREAD

export AAAREPBCP=0
export AAABCPMOD=0

# SQL automatic generation
AAADDLPATH=/oams/bjb_perf_1/aaa/current/ddl
export AAADDLPATH
# These lines are only used for a UNICODE environment
UNICODE_ENABLED=1
export UNICODE_ENABLED

# Some other settings for the Triple'A GUI time out rules
AAAXCONTIMEOUT=600
AAAWARNTIMEOUT=1200
AAAEXITTIMEOUT=300
export AAAXCONTIMEOUT AAAWARNTIMEOUT AAAEXITTIMEOUT

# Here are the current settings for Triple'A Financial server
AAATHREADSTACKSIZE=524288
TSLMESSAGING=0
export AAATHREADSTACKSIZE TSLMESSAGING

# Here are the current settings for Triple'A Gateway
AAAMERCATOR=/oams/bjb_perf_1/aaa/current/gateway/wtx
AAA_GATEWAY_OUTPUT=/oams/bjb_perf_1/aaa/current/gateway/output
export AAAMERCATOR AAA_GATEWAY_OUTPUT

```

```
Dumping rpc messages into the trace. oliLog.txt in $AAAMSG/log folder.  
export DEBUG_GPA=1
```

```
ENABLE_COSTEFFECTIVE_LOCKING
```

Enable tasc_logger traces

```
Application Parameter TASC_LOGGER_LEVEL=60  
Aaamaindb.tasc_config set DEBUG_MODE=1
```

```
=====  
AAA_EXTRA_FIELD_IN_EVENT=1  
AAAEXTSVCTRACE=TRUE
```

```
AAATRACEFUSION=1
```

```
=====  
Application Parameter Level Enabling
```

```
TSL_MESSAGING=1
```

```
FUSION_TRACE
```

```
FUSION_TRACE_POSITION
```

```
FUSION_TRACE_OPEN_POS
```

```
TASC_CONFIG
```

```
=====  
/tap/CIP_LX_VM/aaahome->./aaa sql -Uaaa -SCLP_LX_VM_ORA_DISP  
setenv 'AAASQLTRACE',3
```

```
go
```

```
(0 rows affected)
```

```
(return status = 0)
```

```
setenv 'AAASQLTRACEPARAM',3
```

```
go
```

```
(0 rows affected)
```

```
(return status = 0)
```

```
setenv 'AAASQLTRACEPARAM',3
```

```
go
```

```
setenv 'AAASQLTRACE','
```

```
go
```

```
(0 rows affected)
```

```
(return status = 0)
```

```
setenv 'AAASQLTRACEPARAM','
```

```
go
```

```
(0 rows affected)
```

```
(return status = 0)
```

```
OCS Installation
```

```
Jboss:
```

```
was.home = C:\EDS\jboss-eap-7.0.7
```

MS SQL Server Settings

```
new server is ready: lauwindevtasql1.temenosgroup.com
```

```
sql 2016 Developer Edition with SP2 and CU11
```

```
sql Data on disk E
```

```
Use temenosgroup\cmsbm to connect. This user is a local admin and a SQL sysadmin
```

```
SQL sa user password is 000Temenos
```

- How to connect to SQL Server using sqlcmd

```
sqlcmd -S DESKTOP-5K4TURF\$SQLEXPRESS -E
```

```
The -S value is to specify the SQL Server name of the instance and -E is to specify a trusted connection. If you do not specify the SQL Server name, it will try to connect to the local machine
```

```
From <https://www.sqlshack.com/working-sql-server-command-line-sqlcmd/>
```

- How to check the current database in sqlcmd

```
select DB_NAME()  
GO
```

- How to list the databases in sqlcmd

```
select name from sys.databases  
Go  
Sp_databases  
Go
```

- How to check if the SQL Server is case sensitive in sqlcmd

```
SELECT SERVERPROPERTY('COLLATION')  
GO  
Sp_helpsort  
Go
```

- How to check the SQL Server edition in SQL

```
SELECT SERVERPROPERTY('EDITION')  
GO
```

- How to check the SQL Server Authentication in sqlcmd

```
SELECT SERVERPROPERTY('IsIntegratedSecurityOnly')  
GO
```

- How to list the variables set

```
:listvar
```

- How to work with variables in sqlcmd

```
:SETVAR DATABASENAME "adventureworks2014"  
USE $(DATABASENAME);  
GO
```

References

<https://download.microsoft.com/download/0/F/B/0FBFAA46-2BFD-478F-8E56-7BF3C672DF9D/SQL%20Server%202012%20Tutorials%20-%20Writing%20Transact-SQL%20Statements.pdf>
<https://www.tsqI.info/pdf.php>
https://www.tutorialspoint.com/t_sql/t_sql_quick_guide.htm

Compilation and Linking Options

1. To redirect compiler and Linker commands to file. Use the below options in visual studio
 - a. Command Line options of C/C++ of project properties, add /Bv /Be. It will create the compiler and linking file into w/TA/25.4.06/triplea_core/arch/win/VS150/BIT32/src/aaa_gui.dir/Debug/aaa_gui.log
2. To redirect the preprocessor file into output file
 - a. Preprocessor section set option "Preprocessor to a file" as YES. /P

License File Upload once vmsetup is done.

```
SET PREFIX DATA NONE
SET QUOTE '

CMD INSUPD appl_param
ATT param_name value_n
LICENSEE_NAME 'R&D'
LICENSEE_USERS '100,100,1,100,100,100,100,3,100,100,2,100,100,1,1,1,1,0,1,0'
LICENSEE_EXPIRATION 'UNLIMITED'
LICENSEE_KEY1 '17962 +02KH +J7Mv Qovgj Nlzyu PTqXX'
LICENSEE_KEY2 '+ykku NnzAW NXhP8 PSpLQ Qarxb 2iuuU'
```

```
CMD INSUPD appl_param
ATT param_name value_n
LICENSEE_NAME 'R&D'
LICENSEE_USERS '100,100,1,100,100,100,100,3,100,100,2,100,100,1,1,1,1,0,0,0'
LICENSEE_EXPIRATION 'UNLIMITED'
LICENSEE_KEY1 '17962 +02KH +J7Mv Qovgj Nlzyu PTqXX'
LICENSEE_KEY2 '+ykku NnzAW NXhP8 PUTPz Oj7YW 2nrsz'
```

SQL SERVER

new server is ready: lauwindevtasql1.temenosgroup.com
sql 2016 Developer Edition with SP2 and CU11
sql Data on disk E
Use temenosgroup\cmsbm to connect. This user is a local admin and a SQL sysadmin
SQL sa user password is 000Temenos

AAARPCTIMEOUTDISPATCHERNOTIFICATION used to set the dispatcher server time-out. Default it is set 10 seconds.

New delete operator overloading in c++ examples

Tuesday, November 23, 2021 3:23 PM

```
using namespace std;
class student
{
    string name;
    int age;
public:
    student()
    {
        cout<< "Constructor is called\n";
    }
    student(string name, int age)
    {
        this->name = name;
        this->age = age;
    }
    void display()
    {
        cout<< "Name:" << name << endl;
        cout<< "Age:" << age << endl;
    }
    void* operator new(size_t size)
    {
        cout<< "Overloading new operator with size: " << size << endl;
        void* p = ::operator new(size);
        //void * p = malloc(size); will also work fine

        return p;
    }

    void operator delete(void* p)
    {
        cout<< "Overloading delete operator " << endl;
        free(p);
    }
};

int main()
{
    student * p = new student("Yash", 24);

    p->display();
    delete p;
}
```

From <<https://www.geeksforgeeks.org/overloading-new-delete-operator-c/>>

```
using namespace std;
void* operator new(size_t size)
{
```

```

cout << "New operator overloading " << endl;
void* p = malloc(size);
return p;
}

void operator delete(void* p)
{
    cout << "Delete operator overloading " << endl;
    free(p);
}

int main()
{
    int n = 5, i;
    int* p = new int[3];

    for (i = 0; i<n; i++)
        p[i]= i;

    cout << "Array: ";
    for(i = 0; i<n; i++)
        cout << p[i] << " ";

    cout << endl;

    delete p;
}

```

From <<https://www.geeksforgeeks.org/overloading-new-delete-operator-c/>>

Fusion Trace Documents

Thursday, February 24, 2022 8:11 PM

<https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/TestFusion/Tools/FusionTrace>

TSL-OCS Recomp Jobs References

Friday, December 10, 2021 1:27 PM

tasc-services/tsl-fc-internals/src/main/java/com/odcgroup/tsl/fc/impl/flow/precomp/RecompSearchTslFlowService.java

```
public class RecompSearchTslFlowService extends TslFlowService  
RecompInstrRecomLevelTslFlowService.java  
RecompEntityTslFlowService.java  
ExecutePrecompSQLFlowService.java
```

FinFunction Parallelization

Saturday, August 21, 2021 3:40 PM

tasc-services/tsl-fc-internals/src/main/resources/META-INF/spring/applicationContext-tsl-fc-internals.xml

```
<bean id="portfolioidsForJob" class="com.odcgroup.tsl.fc.intern.api.service.finfunction.job.PortfolioidsForJobNoProclImpl" />
<bean id="portfolioSlicer" class="com.odcgroup.tsl.fc.intern.api.service.finfunction.job.PortfolioSlicerJavaImpl">
    <property name="portfolioidsForJob" ref="portfolioidsForJob"/>
</bean>

<bean id="genericEntitySlicer" class="com.odcgroup.tsl.fc.intern.api.service.finfunction.job.GenericEntitySlicerJavaImpl" />

<bean id="tslFcPrecompEntityDomainLoader" class="com.odcgroup.tsl.fc.impl.job.PrecompEntityDomainLoaderImpl"
    autowire="byName">
    <property name="jobLauncherMonitoringService" ref="com.odcgroup.otf.joblauncher.service.JobLauncherMonitoringService"/>
</bean>

<bean id="tslPrecompEntityDomainLoader" class="com.odcgroup.tsl.fc.impl.job.TslPrecompEntityDomainLoaderImpl"
    autowire="byName">
    <property name="jobLauncherMonitoringService" ref="com.odcgroup.otf.joblauncher.service.JobLauncherMonitoringService"/>
</bean>

<bean id="dataReportingDomainLoaderImpl" class="com.odcgroup.tsl.fc.impl.job.DataReportingDomainLoaderImpl"
    autowire="byName">
    <property name="jobLauncherMonitoringService" ref="com.odcgroup.otf.joblauncher.service.JobLauncherMonitoringService"/>
</bean>

<bean id="tripleAListDomainLoader" class="com.odcgroup.tsl.fc.impl.job.TripleAListDomainLoader" autowire="byName" />

<bean id="tslFcExecutePostFinFunctionJobFlowService" class="com.odcgroup.tsl.fc.impl.flow.finfunction.ExecutePostFinFunctionJobFlowService" autowire="byName" />

<bean id="executeTslPostParallelJobsFlowService" class="com.odcgroup.tsl.fc.impl.flow.job.ExecuteTslPostParallelJobsFlowService" autowire="byName" />

<!-- Use for live synch job -->
<bean id="finFunctionRPCExecutorDataSlicer" class="com.odcgroup.tsl.fc.intern.api.service.finfunction.FinFunctionRPCExecutorDataSlicerImpl"
    autowire="byName" />
<bean id="oneChunckDataSlicer" class="com.odcgroup.tsl.fc.intern.api.service.job.OneChunckDataSlicerImpl"
    autowire="byName" />

<!-- Use for global cache (tsl-precomp-fin-function job) -->
<bean id="precompFinFunctionDataSlicer" class="com.odcgroup.tsl.fc.impl.job.PrecompFinFunctionDataSlicerImpl"
    autowire="byName" />
<bean id="precompFinFunctionDomainLoader" class="com.odcgroup.tsl.fc.impl.job.PrecompFinFunctionDomainLoaderImpl"
    autowire="byName">
    <property name="jobLauncherMonitoringService" ref="com.odcgroup.otf.joblauncher.service.JobLauncherMonitoringService"/>
</bean>
```

All the job related Java sources:

tasc-services/tsl-fc-internals/src/main/java/com/odcgroup/tsl/fc/intern/api/service/finfunction/job

MESI enabling configurations

20 March 2023 11:13

- Appl parameter is having configured with MASTER

```
2 select * from appl_param where param_name like '%MASTER%';
3 select * from portfolio;
```

ID	PARAM_NAME	USER_ID	PARAM_DESC	DATATYPE_DICT_ID	VALUE_N	NATURE_E	SPECIALIZAT
1	262 MASTER_BUSINESS_ENTITY	(null)	Master Business Entity	9	MASTER	1	

- All the tables are having owner_business_entity_id:

```
select * from portfolio;
```

E_ID	BUS_INDICATOR_THRESHOLD_ID	MV_DRP_REPORT_FREQ_E	EXTERNAL_SEQ_NO	DATA_SECU_PROF_ID	DATA_SECU_PROF2_ID	LAST_MODIF_D	LAST_USER_ID	BUSINESS_UNIT_ID	PRIVILEGE_E	OWNER_BUSINESS_ENTITY_ID
111	(null)	1	719729038570000	2	(null)	05-01-23 6:22:52.741473000 PM	1	(null)	3	2
211	(null)	1	719729038627000	2	(null)	05-01-23 6:22:52.759485000 PM	1	(null)	3	2
311	(null)	1	719729039847000	2	(null)	05-01-23 6:22:52.774416000 PM	1	(null)	3	2

- Parameter is not configured with MESI. Below lines are from aaa_install.cfg.

```
M 0000_multi-entity.imp <NO> To activate the Temenos standard multi-entity management
M 0001_multi-entity_partitioned.imp <NO> To activate the partitioning on the multi-entity entities
```

- MASTER business entity id is configured NONE in aaa_install.cfg.

```
V <MASTER_BUSINESS_ENTITY> NONE Master Business Entity For Multi-Entity configuration
```

Map Debugger

Tuesday, May 31, 2022 10:43 PM

Transverse Tool : [mapDebugger](#)

- **Purpose**

Creation of a DSTX command file. Use the command file with **dstx** map loader.

Each output card is redirected to a file regardless its adapter type. The file has the .debug extension.

See DMMOM-876 for initial need.

- **Technical info**

Works only in a Windows environment. It uses DSTX **mexport** and **msdexport** executables.

Java Class : com.odcgroup.gwpack.services.dstx.mapDebugger located there [file:///w7099/d\\$/SVN/GENERAL-TOOLS/java](file:///w7099/d$/SVN/GENERAL-TOOLS/java)

- **Parameters**

#1 : DSTX executable to use : mexport or msdexport

#2 : DSTX source file : mms or msl, according to parameter #1

#3 : List of maps to debug (or All)

- **Outputs**

Look at the C:\Temp directory for commands file

- **Notes**

That class may be re-worked to provide more flexibility

From <<http://wikiorg.temenosgroup.com/display/DEVWIKI/mapDebugger>>

A script exists to run the following maps in debug mode:

- **A2T_Instrument**
- **A2T_Positions**
- **A2T_Transactions**
- **A2T_COA_Transactions**
- **A2T_F2B_Returns**

That script enables to run one of the above maps with the command server using a command file to overwrite all the Input/Output settings.

The user can then easily change any input or/and output setting as he need without changing any source (mms or msl).

He can then perform:

- Performance assessment
- Check for un-processed Rows
- Test a new selection criteria in the [MappingRouting].xml
- Switch On the trace for a given input

The only think to keep in mind any time we add a new input/output card to the maps is to generate not only the msl but also the command file.

From <<http://wikiorg.temenosgroup.com/display/DEVWIKI/MapDebugUtility>>

Unix Administration Commands

Wednesday, January 6, 2021 1:23 PM

To only show folders over 1GB in size

du -h --threshold=1G
From <<https://serverfault.com/questions/225777/how-to-use-du-to-see-files-greater-than-a-threshold-size>>

```
du -k --max-depth=2
```

2

order by size, to easily find the biggest ones.
du -h --threshold=1G | sort -h

```
dev@bngtplx1.asia.temenosgroup.com:/oams/d_ora_22_1/aaa/current/std_admin/scripts> netstat -ano|grep 29010
tcp    0    0 10.94.5.180:29010    0.0.0.0.*          LISTEN   off (0.00/0/0)
tcp    0    0 10.94.5.180:29010    10.94.5.180:18748  ESTABLISHED off (0.00/0/0)
tcp    0    0 10.94.5.180:18748    10.94.5.180:29010  ESTABLISHED keepalive (7082.05/0/0)
tcp    0    0 10.94.5.180:18738    10.94.5.180:29010  TIME_WAIT  timewait (50.11/0/0)
```

```
dev@bngtplx1.asia.temenosgroup.com:/oams/d_ora_22_1/aaa/current/std_admin/scripts> lsof -i:29010
COMMAND  PID USER FD  TYPE DEVICE SIZE/OFF NODE NAME
aaa_srv64 441807 dev 28u IPv4 2446037443 0t0 TCP bngtplx1.asia.temenosgroup.com:29010 (LISTEN)
```

1. **dmesg command** also called as “driver message” or “display message” is used to examine the kernel ring buffer and print the message buffer of kernel. The output of this **command** contains the messages produced by the device drivers.

filter the lines with are having string like ‘usb’ ‘dma’ ‘tty’ and ‘memory’ etc. The ‘i’ option instruct to [grep command](#) to ignore the case (upper or lower case letters).

2. \$>dmesg|grep -i usb
\$>dmesg|grep -i dma
\$>dmesg|grep -i tty
\$>dmesg|grep -i memory

3. /var/log/messages, /var/log/syslog

- **sudo vi /var/log/syslog or /var/log/messages:** Shows general messages and info regarding the system. Basically a data log of all activity throughout the global system. Know that everything that happens on Redhat-based systems, like CentOS or RHEL, will go in messages. Whereas for Ubuntu and other Debian systems, they go in Syslog.
- **sudo vi /var/log/auth.log or /var/log/secure:** Keep authentication logs for both successful or failed logins, and authentication processes. Storage depends on system type. For Debian/Ubuntu, look in /var/log/auth.log. For Redhat/CentOS, go to /var/log/secure.
- **sudo vi /var/log/boot.log:** start-up messages and boot info.
- **/var/log/maillog or var/log/mail.log:** is for mail server logs, handy for postfix, smptd, or email-related services info running on your server.
- **/var/log/kern:** keeps in Kernel logs and warning info. Also useful to fix problems with custom kernels.
- **sudo vi /var/log/dmesg:** a repository for device driver messages. Use **dmesg** to see messages in this file.
- **/var/log/faillog:** records info on failed logins. Hence, handy for examining potential security breaches like login credential hacks and brute-force attacks.
- **/var/log/cron:** keeps a record of Crond-related messages (cron jobs). Like when the cron daemon started a job.
- **/var/log/daemon.log:** keeps track of running background services but doesn't represent them graphically.
- **/var/log/btmp:** keeps a note of all failed login attempts.
- **/var/log/utmp:** current login state by user.
- **/var/log/wtmp:** record of each login/logout.
- **/var/log/lastlog:** holds every user's last login. A binary file you can read via **lastlog** command.
- **/var/log/yum.log:** holds data on any package installations that used the **yum** command. So you can check if all went well.
- **/var/log/httpd/:** a directory containing error_log and access_log files of the Apache httpd daemon. Every error that httpd comes across is kept in the **error_log** file. Think of memory problems and other system-related errors. **access_log** logs all requests which come in via HTTP.
- **/var/log/mysqld.log or /var/log/mysql.log :** MySQL log file that records every debug, failure and success message, including starting, stopping and restarting of MySQL daemon mysqld. The system decides on the directory. RedHat, CentOS, Fedora, and other RedHat-based systems use /var/log/mariadb/mariadb.log. However, Debian/Ubuntu use /var/log/mysql/error.log directory.
- **/var/log/pureftpd.log:** monitors for FTP connections using the pureftpd process. Find data on every connection, FTP login, and authentication failure here.
- **/var/log/spooler:** Usually contains nothing, except rare messages from USENET.
- **/var/log/xferlog:** keeps FTP file transfer sessions. Includes info like file names and user-initiated FTP transfers.

=====

Generating core file from the oracle. Make the below entry in \$TNS_ADMIN/sqlnet.ora

```
DIAG_ADR_ENABLED=OFF
DIAG_SIGHANDLER_ENABLED=FALSE
DIAG_DDE_ENABLED=FALSE
```

From <<http://rd.temenosgroup.com/browse/PMSTA-29846>>

=====

In order to allow us having a first look would you be able to provide logs from the environment having the performance issue

At first glance we need:

TAP core logs:

- Everything in \$AAAHOME/msg

OData layer (OCS)

- Everything (including archive folder) in \$OCS_HOME/logs

WSC logs

- Everything in \$WSC_HOME/logs

We would like to get info about the env. itself

- How is deployed the application (1 machine, n machines)
- Hardware info (cpu, memory, ...)
- Network topology
- ...

In order to get more details for the next time please increase the log level that way:

TAP Core

- In aaaprofile, add:

```
AAATRACEDOMAIN=1
export AAATRACEDOMAIN

AAAPERFMON=1
AAATIMERMASK=1
export AAAPERFMON AAATIMERMASK

AAASQLTRACE=3
AAASQLTRACEPARAM=1
AAASQLTRACEFMT=1
export AAASQLTRACE AAASQLTRACEPARAM AAASQLTRACEFMT

AAA_LOG4CPLUS=$AAAHOME/config/log4cplus.properties
export AAA_LOG4CPLUS
```

-> restart the fin servers

OCS / OData , nothing to change for now

WSC

- in WS_HOME/config/log4j2.xml
change the log level for

```
<logger name="com.temenosconnect.odata.rule" level="DEBUG" additivity="false">
<logger name="com.temenosconnect.utils.LoggingFilter" level="DEBUG" additivity="false">
```

-> restart WSC

Regarding the monitoring of the machines, check if something is already available for all machines involved (for WSC, OData, TAP Core and DB)
(cpu usage, memory, io, network, ...)

if there is nothing consider setup nmon is batch mode and then use nmon analyzer:

<http://nmon.sourceforge.net/pmwiki.php?n=Site.Nmon-Analyser>

Example: capture for 1 hour (120 sample, with a period of 30 seconds)

nmon -ft -s 30 -c 120

Flush the command in Database

SQL> ALTER SYSTEM FLUSH BUFFER_CACHE;

SQL> alter system flush shared_pool;

Setlocal error while building gui

Friday, April 1, 2022 3:23 PM

1. Bitbucket force synch
2. Clean-up 25.4.07.A01 folder
3. Perform multi-scm checkout.
4. Execute _cm.sh

Why this error was happening?

1. Had done git checkout
2. Multi-scm checkout and then _cm.sh. This was causing the issue.

Multi-scm checkout is enough to build completely.

Altering Oracle Sequences, System generated sequences

Thursday, March 17, 2022 8:03 PM

ALTER TABLE EXT_ORDER MODIFY ID GENERATED ALWAYS AS IDENTITY START WITH 52039425 --System generated sequences can not be altered using alter sequence.

identity_clause Use *identity_clause* to modify the properties of an identity column. You cannot specify this clause on a column that is not an identity column. If you do not specify ALWAYS or BY DEFAULT, then the current generation type is retained. Refer to CREATE TABLE *identity_clause* for more information on ALWAYS and BY DEFAULT.

identity_options Use the *identity_options* clause to configure the sequence generator. The *identity_options* clause has the same parameters as the CREATE SEQUENCE statement. Refer to CREATE SEQUENCE for a full description of these parameters and characteristics. The exceptions are:

- START WITH LIMIT VALUE, which is specific to *identity_options*, can only be used with ALTER TABLE MODIFY. If you specify START WITH LIMIT VALUE, then Oracle Database locks the table and finds the maximum identity column value in the table (for increasing sequences) or the minimum identity column value (for decreasing sequences) and assigns the value as the sequence generator's high water mark. The next value returned by the sequence generator will be the high water mark + INCREMENT BY *integer* for increasing sequences, or the high water mark - INCREMENT BY *integer* for decreasing sequences.

- If you change the value of START WITH, then the default values will be used for all other parameters in this clause unless you specify otherwise.

DROP IDENTITY Use this clause to remove the identity property from a column, including the sequence generator and NOT NULL and NOT DEFERRABLE constraints. Identity column values in existing rows are not affected.

From <https://docs.oracle.com/database/121/SQLRF/statements_3001.htm#CJABEJEF>

=====

VM Upgrade Steps - WSC Installations

Thursday, April 11, 2019 9:56 AM

```
[aaa@myserver install]$ ./pre_aaa_upgrade.sh aaa aaaaaa manager $AAAHOME $AAAHOME/distribution CIP_LX_VM_ORA default_charset
```

```
./aaa_upgrade.sh <AppUser> <AppUserPwd> <DBPwd> <AAAHOME> <MountDir/distribution> <EnvironName> {no_bck|backup_dir}  
[aaa@myserver install]$
```

```
[aaa@myserver install]$ ./aaa_upgrade.sh aaa aaaaaa manager $AAAHOME $AAAHOME/distribution CIP_LX_VM_ORA no_bck
```

```
./post_aaa_upgrade.sh aaa aaaaaa manager $AAAHOME CIP_LX_VM_ORA aaamaindb CIP_LX_VM_ORA/25.0.0/distribution/log  
./post_aaa_upgrade.sh aaa aaaaaa manager $AAAHOME CIP_LX_VM_ORA aaamaindb CIP_LX_VM_ORA $AAAHOME/distribution/log
```

```
=====
```

Ova files from local servers

dev@bnglxaaa01/dev2010team
/nas/delivery/internal/VirtualBox/ws_22.01

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22010300409>>

List of VMs for for IFS path is:

<\\lausanshare\Public\VirtualBox>
<https://confluence.temenos.com/display/DEVWIKI/New+PC+initial+installation>

Checksum

```
>cksum aaa_srv64  
2527478961 6731 start_srv  
=====
```

WSC Installations

1. Copy TCIBInstaller.jar, FOPM.war, install.properties and forms.lic into dist folder
2. Java -jar TCIBInstaller.jar

[12:09 PM] Shreyash Shrivastava

```
sudo sync; echo 3 | sudo tee /proc/sys/vm/drop_caches
```

```
=====
```

To execute the upgrade in silent or no user input mode:

```
export SILENT_MODE=1  
export BYPASS_CONNECTED_USER=1
```

New Development Tests Installation

12 December 2022 11:35

1. Checkout from the specific installation from:

https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/TAP_install/install_config/new_perf_infra/install

```
$> /tap/CIP_LX_VM/aaahome/install_config->svn checkout "https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/TAP\_install/install\_config/new\_perf\_infra/install".
```

2. Execute install_new_perf_infra.sh

```
$> /tap/CIP_LX_VM/aaahome/install_config->./install_new_perf_infra.sh
import ./new_perf_infra/01-infra/*.imp files
Start import of ./new_perf_infra/01-infra/01-ALL_perf_fees_taxes_rule.imp (output is /tap/CIP_LX_VM/aaahome/tmp/01-ALL_perf_fees_taxes_rule.imp)
MSG aaa, myserver.temenosgroup.com, 2022/12/12 07:09:39, <stdin>:0 : opening <stdin>
MSG aaa, myserver.temenosgroup.com, 2022/12/12 07:09:39, <stdin>:17 : closing <stdin>
Import of ./new_perf_infra/01-infra/01-ALL_perf_fees_taxes_rule.imp done.
Start import of ./new_perf_infra/01-infra/02-ALL_perf_computation_rule.imp (output is /tap/CIP_LX_VM/aaahome/tmp/02-ALL_perf_computation_rule.imp)
MSG aaa, myserver.temenosgroup.com, 2022/12/12 07:09:40, <stdin>:0 : opening <stdin>
ERR 11 file <stdin>, line 12: Unknown entity
ERR 13 file <stdin>, line 13: Unexpected attribute line
ERR 14 file <stdin>, line 14: Unexpected data line
ERR 14 file <stdin>, line 15: Unexpected data line
ERR 14 file <stdin>, line 16: Unexpected data line
ERR 14 file <stdin>, line 17: Unexpected data line
MSG aaa, myserver.temenosgroup.com, 2022/12/12 07:09:40, <stdin>:17 : closing <stdin>
```

Gwpack all the tools & Collaterals

06 December 2022 15:29

[repos - Revision 6326: / \(temenosgroup.com\)](#) - w7099.temenosgroup.com:8090/repos/

CDB-PDB-Multi-Tenant DB

Thursday, April 30, 2020 9:17 AM

```
[oracle@syslogubddsne001 ~]$ sqlplus / as sysdba  
SQL*Plus: Release 12.1.0.1.0 Production on Wed Feb 19 11:42:19 2014
```

Copyright (c) 1982, 2013, Oracle. All rights reserved.

Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.1.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

```
SQL> show con_name
```

CON_NAME

CDB\$ROOT

```
SQL> ALTER SESSION SET CONTAINER = PDB$SEED;
```

Session altered.

```
SQL> show con_name
```

CON_NAME

PDB\$SEED

```
SQL>
```

From <<https://www.dbarj.com.br/en/2014/02/howto-get-current-session-container-oracle-12c/>>

```
SQL> select SYS_CONTEXT('USERENV', 'CON_NAME') NAME FROM DUAL;
```

NAME

CDB\$ROOT

```
SQL> ALTER SESSION SET CONTAINER = PDB$SEED;
```

Session altered

```
SQL> select SYS_CONTEXT('USERENV', 'CON_NAME') NAME FROM DUAL;
```

NAME

PDB\$SEED

From <<https://www.dbarj.com.br/en/2014/02/howto-get-current-session-container-oracle-12c/>>

Clone PDB within CDB

Cloning a new PDB pdb3 from pdb2 within CDB cdb2, we will cover the following steps:

1. Create a directory to store new PDB datafiles
2. Set PDB2 (source pdb) in Open Read only mode

3. Clone PDB from PDB2 to PDB3
4. Check the newly created PDB status
5. Open the PDB database

1. Create a directory to store new PDB Datafiles

```
mkdir /u01/app/oracle/oradata/cdb2/pdb3
```

2. Set pdb2(source PDB) in Open Read only mode

```
sqlplus "/as sysdba"  
alter pluggable database pdb2 close;  
alter pluggable database pdb2 open read only;
```

o/p:

```
[oracle@cdb12c /]$ . oraenv  
ORACLE_SID = [cdb2] ?  
The Oracle base remains unchanged with value /u01/app/oracle  
[oracle@cdb12c /]$ sqlplus "/as sysdba"
```

```
SQL*Plus: Release 12.2.0.1.0 Production on Mon Jan 18 15:51:40 2021  
Copyright (c) 1982, 2016, Oracle. All rights reserved.  
Connected to:  
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  
SQL> alter pluggable database pdb2 close;  
Pluggable database altered.  
SQL> alter pluggable database pdb2 open read only;  
Pluggable database altered.  
SQL>
```

Clone PDB from PDB2 to PDB3

```
create pluggable database pdb3 from pdb2  
create_file_dest='/u01/app/oracle/oradata/cdb2/pdb3';
```

Output:

```
SQL> create pluggable database pdb3 from pdb2  
2 create_file_dest='/u01/app/oracle/oradata/cdb2/pdb3';
```

Pluggable database created.

```
SQL>
```

check the newly created pdb status

```
select name, open_mode from v$pdbs;  
show pdbs;
```

```
SQL> select name, open_mode from v$pdbs;
```

NAME	OPEN_MODE
PDB\$SEED	READ ONLY
PDB1	READ WRITE
PDB2	READ ONLY
PDB3	MOUNTED -->newly created pdb

```
SQL> show pdbs;
```

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB\$SEED	READ ONLY	NO
3	PDB1	READ WRITE	NO
4	PDB2	READ ONLY	NO
5	PDB3	MOUNTED	

Open the PDB database in read-write mode

```
--Open source pdb if required:  
alter pluggable database pdb2 close;  
alter pluggable database pdb2 open;
```

```
--Open newly created pdb:  
alter pluggable database pdb3 open;
```

Output:

```
SQL> alter pluggable database pdb2 close;  
Pluggable database altered.  
SQL> alter pluggable database pdb2 open;  
Pluggable database altered.
```

```
SQL> alter pluggable database pdb3 open;  
Pluggable database altered.  
SQL>
```

From <<https://oracle-blog.com/clone-a-pluggable-database-pdb-within-a-cdb-in-oracle-12c/>>

Triple'A Installation using dev tools

20 February 2023 11:07

<http://wikiorg.temenosgroup.com/display/DEVWIKI/Triple%27A+installation+using+dev+tools>

Goal of this documentation

This page explain how to install TAP Core on your machine. The Oracle data server that is used is located on a virtual machine.

The installation is done using the source code you have in your CMS workspace.

It allows you to test the installation before committing your code in CMS.

This TAP Core installation can be used to develop and debug TAP Core, you master its refresh.

Several options in the script allow you to install the packaging, the test data, etc.. (more details below).

Prerequisite

Install Cygwin

- Make sure you have a Cygwin installed (see : <http://wiki.temenosgroup.com/display/TOOLS/Cygwin+configuration>)

Install a virtual machine with only an oracle server

- Set up description [DEP - TAP on VirtualBox](#)
- You may consider taking this simple virtual machine: \\lausanshare\delivery\incoming_packages\tmp\VirtualBox\tap_oracle_empty.ova
Or
- Small TripleA 23.0.0 (WS17.11) virtual machine: \\lausanshare\delivery\incoming_packages\tmp\VirtualBox\ta_oracle_23.0.0.ova
- Full WS 23.0.0 (WS17.11) virtual machine: \\lausanshare\delivery\incoming_packages\tmp\VirtualBox\tap_oracle_23.0.0.ova

TAP Core C development environment is done

- Visual Studio is installed
- CMS project has been check-out.
Note that CMS project must be check-out with this convention for the version : version_win_trigrame, example 23.0.0_win_sse.

FTGEN Check-out

FTGEN SVN folder is used during the process.

for example the test data are taken from FTGEN.

- Verify that the folder structure of <https://lausvn.temenosgroup.com/svn/ftgen/> is check-out in C:_ftgen. To check-out the folder structure only you use "update to revision" command and select "immediate children, including folder".

General set up

- Create the directory c:\oams if not exists.
- Check out the standard tools: https://lausvn.temenosgroup.com/svn-devel/internal/TAP-Core/Tools/TAP_install to c:\oams\tools
- Unzip \\lausanshare\Public\JE\tap_install\oracle_home.zip to c:\oams\oracle_home
- Install ANT (download it before) on c:\oams\ant
- Check out <https://lausvn.temenosgroup.com/svn-devel/thirdparty/ant/additional-libs/> into c:\oams\ant
 - It will create a folder C:\oams\ant\additional-libs
- install Java on c:\oams\java\...
- Check and define environment variable: ANT_HOME=c:\oams\ant\...
- Check and define environment variable: JAVA_HOME=c:\oams\java\...
- Define environment variable: MY_TOOLS_DIR=c:/oams/tools
- Check and define environment variable: ORACLE_HOME=c:/oams/oracle_home

Edit the file C:\cygwin64\home<useraccount>\bash_profile (where useraccount is your account) with this content:

```
# To the extent possible under law, the author(s) have dedicated all
# copyright and related and neighboring rights to this software to the
# public domain worldwide. This software is distributed without any warranty.
# You should have received a copy of the CC0 Public Domain Dedication along
# with this software.
# If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

# base-files version 4.2-4

# ~/.bash_profile: executed by bash(1) for login shells.

# The latest version as installed by the Cygwin Setup program can
# always be found at /etc/defaults/etc/skel/.bash_profile

# Modifying /etc/skel/.bash_profile directly will prevent
# setup from updating it.

# The copy in your home directory (~/.bash_profile) is yours, please
# feel free to customise it to create a shell
# environment to your liking. If you feel a change
# would be benificial to all, please feel free to send
# a patch to the cygwin mailing list.

# User dependent .bash_profile file

# source the users bashrc if it exists
if [ -f "${HOME}/.bashrc" ] ; then
    source "${HOME}/.bashrc"
fi

# Set PATH so it includes user's private bin if it exists
```

```

# if [ -d "${HOME}/bin" ] ; then
#   PATH="${HOME}/bin:${PATH}"
# fi

# Set MANPATH so it includes users' private man if it exists
# if [ -d "${HOME}/man" ] ; then
#   MANPATH="${HOME}/man:${MANPATH}"
# fi

# Set INFOPATH so it includes users' private info if it exists
# if [ -d "${HOME}/info" ] ; then
#   INFOPATH="${HOME}/info:${INFOPATH}"
# fi
unset LANG

MY_TOOLS_DIR=c:/oams/tools
export MY_TOOLS_DIR

if [ -f "$MY_TOOLS_DIR/.profile" ] ; then
  source "$MY_TOOLS_DIR/.profile"
fi

```

Create C:\oams\tools\init_whoami.sh file

- run the command `whoami` to know your username. Let's imagine it is sserniguet.
- Rename C:\oams\tools\init_localuser.sh to init_sserniguet.sh (whoami gave sserniguet in this example)
- This file define the required variables to reconfigure your CMS projects.
- Uncomment all the lines and perhaps do some adaptation to match your CMS working area. (Note that the convention on the properties of the working area described in the prerequisite chapter can also be changed here).
- Example of a file with all line uncommented and some adaptation done to the working area path:

```

CCM_HOME_TA=/advisor/TA/$RELEASE
echo "CCM_HOME_TA=$CCM_HOME_TA"
CCM_PROJ_CORE=triplea_core!${RELEASE}_${CCM_PATERN}_${CCM_USER_NAME}
echo "CCM_PROJ_CORE=$CCM_PROJ_CORE"
CCM_PROJ_DDL=triplea_ddl!${RELEASE}_${CCM_PATERN}_${CCM_USER_NAME}
echo "CCM_PROJ_DDL=$CCM_PROJ_DDL"
CCM_PROJ_HOME=triplea_home!${RELEASE}_${CCM_PATERN}_${CCM_USER_NAME}
echo "CCM_PROJ_HOME=$CCM_PROJ_HOME"
CCM_PROJ_PACK=triplea_pack!${RELEASE}_${CCM_PATERN}_${CCM_USER_NAME}
echo "CCM_PROJ_PACK=$CCM_PROJ_PACK"
export CCM_HOME_TA CCM_PROJ_CORE CCM_PROJ_DDL CCM_PROJ_HOME CCM_PROJ_PACK

```

Adapt tnsnames.ora file to your VM settings

Verify that you have the following entries (with the right port numbers) in C:\oams\oracle_home\network\admin\tnsnames.ora

The VM are using the port 1521.

```

D_TAP_ORA =
(DESCRIPTION =
(address_list =
  (ADDRESS = (PROTOCOL = TCP)(Host = localhost)(Port = 1521))
)
(connect_data =
  (service_name = D_TAP_ORA.CIP)
)
)

```

```

CLX =
(DESCRIPTION =
(ADDRESS = (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))
(CONNECT_DATA =
  (SERVER = DEDICATED)
  (SERVICE_NAME = CLX.CIP)
)
)

```

CLX is the CDB where the PDB D_TAP_ORA will be created. The VM contains already the CLX CDB and the installation scripts are creating the PDB D_TAP_ORA.

Launching the installation

Setup environment variables

- Start Cygwin64 terminal
 - You should see "setenv d_tap_ora" at the beginning of the windows as it is defined in .bash_profile
 - to setup your environment name type
`setenv d_tap_ora`
 - It setup environment variable and useful alias
 - Verify the properties defined in C:\oams\tools\init_D_TAP_ORA.sh
 - Adapt the file C:\oams\tools\init_D_TAP_ORA.sh to decide what you want to do. This file controls the scripts. The first time it is recommended to to the maximum of step to verify the process.
- ```

REMOVE_AAHOME=1
REFRESH_HOME=1
REFRESH_DISTIB=1
REFRESH_DISTIB_FROM_CMS=1
REFRESH_CMS=1
REFRESH_DDL=1
REFRESH_CORE=1
CLEAN_CORE=0
REFRESH_PACK=1
INSTALL_OCS=0
BACKUP=0

AAA_INSTALL=1
PCK_KIT_INSTALL=1
TSL_PREC=1
INSTALL_CLIENT_CONNECT=1
INSTALL_FEATURES=0
ALL_UD_FIELDS=false"
ALL_UD_FIELDS_TEST=0
ALL_UD_FIELDS_ON_UDE=0
TA_DEV_FROM_SCRATCH=1
TEST_EVAL_ENTITY="false"

```
- To initialize your environment and launch init\_env\_win.sh type

```
aa
Each time you change the init_D_TAP_ORA.sh, you need to type the above aa command.
```

## Installation

- Start the virtual machine that contains the oracle server.
- Type the following command to launch the installation  
ita
- Press enter to install from scratch
- Press enter to remove the AAAHOME directory c:/oams/d\_tap\_ora/aaa
- The installation log file is shown

```

The log file is : 'c:/oams/d_tap_ora/local_install.log.17872'
*****'
```
- Using another cygwin terminal you can tail the log file to follow the installation process. Type  
tail -1000f c:/oams/d\_tap\_ora/local\_install.log.17872

## Description of the installation process

- Refresh of the distribution :** If the variable REFRESH\_DISTRI is set the distribution is copied locally. By default it from //lausanshare/delivery/incoming\_packages/TA/23.0.0/disk1/distribution/ but it can be changed in C:/oams/tools/D\_TAP\_ORA.properties. This copy takes some time.
- Update of CMS work area :** if the variable REFRESH\_CMS is set the CMS project are updated, your work areas are refreshed with the last content of CMS. Your changes done locally are kept and will be deployed.

## Automated environment settings

### Prerequisite:

MY\_TOOLS\_DIR -> Where are the settings tools ([https://lausvn.temenosgroup.com/svn-devel/internal/TAP-Core/Tools/TAP\\_install](https://lausvn.temenosgroup.com/svn-devel/internal/TAP-Core/Tools/TAP_install))

OVA\_DIR -> Where are the OVA files

TA\_DRIVE -> Drive where is define "oams" directory (drive of the \$MY\_TOOLS\_DIR), default "c:"

FTGEN\_DIR -> Where are the testing data, default "c:/\_ftgen"

TAP\_ENV\_DIR -> Where will be the environment (default \$OAMS\_DIR, if not defined \$MY\_TOOLS\_DIR)

Install nmap tool (<https://nmap.org>)

### Call first time:

```
$ $MY_TOOLS_DIR/create_env.sh
Please enter the environment name: d_tap_ora33
Please enter the release: 24.0.0
Check release number 24.0.0...
Search release on: https://lausvn.temenosgroup.com/svn-devel/products/TA/branches... ok
Please enter the rdbm ([SYBASE]/ ORACLE): ORACLE
Create a new virtual machine? ([Y]/N): N
2018-09-25 11:31:00
The variable CURRENT_VM is not set
List of VM
tap_oracle_1
tap_oracle_3
tap_oracle_2
tap_sybase_10
tap_oracle_12_2
tap_sybase_20
tap_sybase_1
tap_sybase_30
mig_oracle_2
mig_sybase_2
mig_sybase_1
mig_oracle_1
Please choose:
AAA_RDBMS : ORACLE
RDBMS : oracle
OVA_DIR : f:/my_ova
TA_DRIVE : t
FTGEN_DIR : c:/_ftgen
TAP_ENV_DIR : f:/env
Ports values:
 financial server: 7094 - closed (unknown)
 oracle sid :
Copy file features.properties to t:/oams/tools/cfg/D_TAP_ORA33.features.properties for customization
Copy file local.properties to t:/oams/tools/cfg/D_TAP_ORA33.local.properties for customization
Buildfile: t:/oams/tools\build.xml
create_cfg_file:
 [echo] f:/env/d_tap_ora33/aaa
[propertyfile] Creating new property file: c:_ftgen\TA\AUTOMATION\AUTOMATOR\CONFIG_FILES\d68xmcm2\d_tap_ora33.cfg
BUILD_SUCCESSFUL
Total time: 0 seconds
Ready to execute the following command:
setenv d_tap_ora33
```

Or

```
$ $MY_TOOLS_DIR/create_env.sh
Please enter the environment name: d_tap_ora40
Please enter the release: 23.1.04
Check release number 23.1.04...
Search release on: https://lausvn.temenosgroup.com/svn-devel/products/TA/branches... ok
Please enter the rdbm ([SYBASE]/ ORACLE): ORACLE
Create a new virtual machine? ([Y]/N): Y
Enter the name of the new virtual machine: tap_oracle_40
AAA_RDBMS : ORACLE
RDBMS : oracle
CURRENT_VM : tap_oracle_40
OVA_DIR : f:/my_ova
TA_DRIVE : t
FTGEN_DIR : c:/_ftgen
TAP_ENV_DIR : f:/env
Ports values:
 database : 11523 - closed (unknown)
```

```

ssh : 12203 - closed (unknown)
oracle sid : CLX31
financial server: 7094 - closed (unknown)
Copy file features.properties to t:\oams\tools\cfg\TAP_ORA40.features.properties for customization
Copy file local.properties to t:\oams\tools\cfg\TAP_ORA40.local.properties for customization
Buildfile: t:\oams\tools\build.xml
create_cfg_file:
[echo] fi:/env/d_tap_ora40/aaa
[propertyfile] Creating new property file: c:_ftgen\TA\AUTOMATOR\AUTOMATOR\CONFIG_FILES\TAP_ORA40.cfg
BUILD SUCCESSFUL
Total time: 0 seconds
Ready to execute the following command:
setenv d_tap_ora40

```

The following steps are done:

- 1) The file \$MY\_TOOLS\_DIR/<environment name>.properties is created
  - 2) The files \$MY\_TOOLS\_DIR/<environment name>.features.properties and \$MY\_TOOLS\_DIR/<environment name>.local.properties are created.
- These files are used to rebuild the main properties file in case of updating the release.
- 3) The ports are chosen and set in the file \$MY\_TOOLS\_DIR/env\_ports.ls
  - 4) The sql.ini or trsmnanes.ora file is updated
  - 5) The file \$FTGEN\_DIR/AUTOMATOR/CONFIG\_FILES/\$COMPUTERNAME/\$CFG\_ENVIRON\_NAME.cfg is created
  - 6) The file \$AAACFGPATH/\$CFG\_ENVIRON\_NAME.cfg is created with environment values
  - 7) If the release is defined in "tags", the variable "envprops\_refresh\_distrib\_from\_cms" is set to 0

## Useful commands

Setting the environment

```
setenv <environment name>
```

List of setenv command for local environment

To run it automatically each time a window is open add it in your .bash\_profile (after call to \$MY\_TOOLS\_DIR/profile)

```
sel
```

Install from scratch

```
ita
```

Refresh \$AAAHOME and launch the installation of DDL objects and packages

```
rddl
```

Refresh \$AAAHOME only

```
rddl NO
```

Show the current environment definitions

```
ver
```

Refresh environment parameters

```
re
```

Check-out the source code

```
co
```

The system variable CCM\_HOME\_TA must be defined correctly.

Start, Check and stop all financial servers

```
start_allsrv
check_allsrv
stop_allsrv
```

Launch aaa\_sql

```
sql
```

Launch aaa\_imp

```
imp
```

Change current release version

```
setver <new version>
```

Be careful, the data of the files \$MY\_TOOLS\_DIR/<environment name>.features.properties and \$MY\_TOOLS\_DIR/<environment name>.local.properties will override the lines in the file \$MY\_TOOLS\_DIR/<environment name>.properties!

For instance, the "envprops\_test\_data\_scope" property.

Upgrade from last version

```
$TA_TOOLS_DIR/upgrade.sh
```

## Useful commands with local Virtual Machine

Start current Virtual Machine

```
vm_start
```

Stop current Virtual Machine

```
vm_stop
```

Make a snapshot

```
vm_snapshot
```

Restore the current Virtual Machine with the last save (snapshot) state

```
vm_restore_current
```

Delete a snapshot

```
vm_delete_snapshot
```

With the argument "all", all snapshots will be deleted.

Backup the Virtual Machine, the AAAHOME and the properties file into the \$OVA\_DIR directory

backup

Example:

```
$ backup
25_09_2018 16:14:07 Begin of script f:/env/d_mig_sybl/aaa/std/admin/scripts/stop_allsrv.sh
25_09_2018 16:14:07 CleanUp log files older than 30 days in f:/env/d_mig_sybl/aaa/std/admin/log/stop_allsrv
25_09_2018 16:14:07 Stop TripleA server D_MIG_SYBL_S1
25_09_2018 16:14:30 End of script f:/env/d_mig_sybl/aaa/std/admin/scripts/stop_allsrv.sh with code 0 log into
f:/env/d_mig_sybl/aaa/std/admin/log/stop_allsrv/stop_allsrv_20180925_16h14m07s.log
2018-09-25 16:14:30
2018-09-25 16:14:30
Waiting shutdown.....done
The following VM are started:
"tap_oracle_1" {32f557a6-7ff1-4ca2-94e1-4d46276f878f}
2018-09-25 16:14:40
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Successfully exported 1 machine(s).
2018-09-25 16:20:10
Waiting for VM "mig_sybase_1" to power on...
VM "mig_sybase_1" has been successfully started.
The following VM are started:
"tap_oracle_1" {32f557a6-7ff1-4ca2-94e1-4d46276f878f}
"mig_sybase_1" {339c5b94-0e96-476b-83d6-a3dccc0c2fab}
2018-09-25 16:20:15
```

Restore the Virtual Machine, the AAAHOME and the properties file from the \$OVA\_DIR directory

restore

Example:

```
$ restore
Release/scope of available backup:
11.0.03%VAL
23.1.04%VAL
7.1.288VAL
9.0.19%VAL
Choose release/scope: 23.1.04%VAL
Restoring files:
 aaahome : /cygdrive/f/my_ova/d_mig_sybl%23.1.04%VAL.tar.gz -> ok
 ova : /cygdrive/f/my_ova/d_mig_sybl%23.1.04%VAL.ova -> ok
 properties file : /cygdrive/f/my_ova/d_mig_sybl%23.1.04%VAL.properties -> ok
Press Enter to process of the restore...
Copy properties file
Backup t:/oams/tools/D_MIG_SYBL.properties to t:/oams/tools/D_MIG_SYBL.properties.121928
Buildfile: t:\oams\tools\build.xml
convert_property_file:
[propertyfile] Creating new property file: t:\oams\tools\init_D_MIG_SYBL.cfg
BUILD SUCCESSFUL
Total time: 0 seconds
Backup f:/env/d_mig_sybl/aaa to f:/env/d_mig_sybl/aaa.121928 ...Done
Unzip and untar file /cygdrive/f/my_ova/d_mig_sybl%23.1.04%VAL.tar.gz ...Done
2018-09-25 16:29:34
!!! Removing Virtual Machine mig_sybase_1 !!!
Are-you sure? YES/NO(default)
2018-09-25 16:29:34
Waiting shutdown.....done
The following VM are started:
"tap_oracle_1" {32f557a6-7ff1-4ca2-94e1-4d46276f878f}
2018-09-25 16:29:43
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Interpreting F:\my_ova\d_mig_sybl%23.1.04%VAL.ova...
OK.
0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Disks:
 vmdisk1 42949672960 -1 http://www.vmware.com/interfaces/specifications/vmdk.html#streamOptimized
disk001.vmdk -1 -1 http://www.vmware.com/interfaces/specifications/vmdk.html#streamOptimized
vmdisk2 85899345920 -1 http://www.vmware.com/interfaces/specifications/vmdk.html#streamOptimized
disk002.vmdk -1 -1 http://www.vmware.com/interfaces/specifications/vmdk.html#streamOptimized
Virtual system 0:
0: Suggested OS type: "RedHat_64"
 (change with "--vsys 0 --ostype <type>"; use "list ostypes" to list all possible values)
1: VM name specified with --vmname: "mig_sybase_1"
2: Number of CPUs: 4
 (change with "--vsys 0 --cpus <n>")
3: Guest memory: 8192 MB
 (change with "--vsys 0 --memory <MB>")
4: Sound card (appliance expects "", can change on import)
 (disable with "--vsys 0 --unit 4 --ignore")
5: Network adapter: orig NAT, config 3, extra slot=0;type=NAT
6: Network adapter: orig HostOnly, config 3, extra slot=1;type=HostOnly
7: IDE controller, type PIIX4
 (disable with "--vsys 0 --unit 7 --ignore")
8: IDE controller, type PIIX4
 (disable with "--vsys 0 --unit 8 --ignore")
9: SATA controller, type AHCI
 (disable with "--vsys 0 --unit 9 --ignore")
10: Hard disk image: source image=d_mig_sybl%23.1.04%VAL-disk001.vmdk, target path=F:\VirtualBox VMs\mig_sybase_1\d_mig_sybl%23.1.04%VAL-disk001.vmdk, controller=9;channel=0
 (change target path with "--vsys 0 --unit 10 --disk path";
 disable with "--vsys 0 --unit 10 --ignore")
11: Hard disk image: source image=d_mig_sybl%23.1.04%VAL-disk002.vmdk, target path=F:\VirtualBox VMs\mig_sybase_1\d_mig_sybl%23.1.04%VAL-disk002.vmdk, controller=9;channel=1
 (change target path with "--vsys 0 --unit 11 --disk path";
 disable with "--vsys 0 --unit 11 --ignore")
Successfully imported the appliance.
Name of the new VM is mig_sybase_1
The ssh port is 2204
The financial server port is 7084
Starting Virtual Machine
Waiting for VM "mig_sybase_1" to power on...
VM "mig_sybase_1" has been successfully started.
The following VM are started:
"tap_oracle_1" {32f557a6-7ff1-4ca2-94e1-4d46276f878f}
"mig_sybase_1" {94266cc5-642a-4042-b44c-21ea200507f3}
```

From <<http://wikiorg.temenosgroup.com/display/DEVWIKI/Triple%27A+installation+using+dev+tools>>



## <https://aka.ms/mfasetup> - Multi factor authentication setup

08 April 2023 16:17

Login to <https://aka.ms/mfasetup>

Change the notification to sms.

Setup the device and scan the qr code.

# Tx - Tm - Locks in oracle

10 April 2023 17:02

```
 1 select /*+ ordered */
 2 a.sid blocker_sid,
 3 a.username blocker_username,
 4 a.serial#,
 5 a.logon_time,
 6 b.type,
 7 b.lmode mode_held,
 8 b.ctime time_held,
 9 c.sid waiter_sid,
10 c.request request_mode,
11 c.ctime time_waited
12 from v$lock b, v$enqueue_lock c, v$session a
13 where a.sid = b.sid
14 and b.id1 = c.id1(+)
15 and b.id2 = c.id2(+)
16 and c.type(+) = 'TX'
17 and b.type = 'TX'
18 and b.block = 1
19 order by time_held, time_waited;

20
21 select c.sid waiter_sid, a.object_name, a.object_type
22 from dba_objects a, v$session b, v$session_wait c
23 where (a.object_id = b.row_wait_obj# or
24 a.data_object_id = b.row_wait_obj#)
25 and b.sid = c.sid
26 and chr(bitand(c.P1,-16777216)/16777215) ||
27 chr(bitand(c.P1,16711680)/65535) = 'TX'
28 and c.event = 'enqueue';
```

# Steps to Create environment, build, install from scratch local vm

03 April 2023 12:21

```
/home/laxmishhegde->$MY_TOOLS_DIR/create_env.sh
Please enter the environment name: L_VM_ORA_HLA_1
```

Do the environment will be install on the VM (Y/[N]): Y

Please enter the release [develop]: feature/27.8.0.performance

Check release number feature/27.8.0.performance...

Search release on: <https://lausvn.temenosgroup.com/svn/devel/products/TA/branches>... Skipped

Search release on: <https://lausvn.temenosgroup.com/svn/devel/products/TA/tags>... Skipped

Please enter the rdbm ([ SYBASE ] / ORACLE / NUODB / MSSQL / POSTGRESQL / SQLITE ): ORACLE

Create a new virtual machine? ([Y]/N): Y

Enter the name of the new virtual machine [l\_vm\_ora\_hla\_1]:

Please provide the OVA directory:

Please copy your ssh key on this VM

Execute the following command on your Cygwin env, the password is (generic00)

```

scp ~/.ssh/id_rsa* aaa@192.168.56.32:.ssh/.
```

```
=====
/home/aaa->check
Updating 'tools':
At revision 452047.

```

```
git version 2.27.0

```

```
Apache Ant(TM) version 1.10.10 compiled on April 12 2021

```

```
svn, version 1.10.2 (r1835932)

```

```
Copy /tap/cfg/CIP_LX_VM.properties from ~/tools/ORACLE/CIP_LX_VM.properties
Buildfile: /home/aaa/tools/build.xml
```

```
set:
[echo] set envprops_db_host=192.168.56.32 on file /tap/cfg/CIP_LX_VM.properties
[propertyfile] Updating property file: /tap/cfg/CIP_LX_VM.properties
```

```
BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /home/aaa/tools/build.xml
```

```
set:
[echo] set envprops_fs_host=192.168.56.32 on file /tap/cfg/CIP_LX_VM.properties
[propertyfile] Updating property file: /tap/cfg/CIP_LX_VM.properties
```

```
BUILD SUCCESSFUL
=====
```

```
Please enter your full name: laxmishhegde
Please enter your user name: laxmishhegde
```

```
Git configuration:
Git User Name = laxmishhegde
Git User email = laxmishhegde@temenos.com

```

```
Current IP = 192.168.56.32
Host name = ta-oracle-host
RDBMS = ORACLE

```

```
Properties file: /tap/cfg/CIP_LX_VM.properties

```

```
envprops_aaa_rdbms = ORACLE
envprops_environ_name = CIP_LX_VM
envprops_release = develop
envprops_ics_release_wsc = 2.1.0
envprops_ics_release_ocs = [unset]
envprops_ta_tools_release = 26.0.0
envprops_testdata_release = develop
```

```

envprops_major_release = [unset]
envprops_git_branch = develop
envprops_git_main_branch = develop
envprops_test_data_scope = AUTOMATOR
envprops_automator_release = [unset]

envprops_avoid_install_test_data = false
envprops_connected = true
envprops_stop_on_error = true
envprops_light_delivery = false

envprops_sanitizer = false

=====

ta set <property name> <value>

/home/aaa->ta
Buildfile: /home/aaa/tools/build.xml

Main targets:

aaa_install Triple'A Installation (-Dinstall_target=)
aaa_install_finish_mig Triple'A finish Installation for migration (useful in case of errors)
aaa_install_mig Triple'A Installation for migration (-Dinstall_target=)
aaa_post_upgrade Triple'A Upgrade
aaa_pre_upgrade Triple'A Pre-Upgrade
aaa_upgrade Triple'A Upgrade (used by upgrade_to_current_version)
aaa_version Show the Triple'A version
all_clean Clean All
allsrv_check Check All Servers
allsrv_restart Restart All Servers
allsrv_start Start All Servers
allsrv_stop Stop All Servers
call_setup_TA_from_scratch Call the installation of test data for the current scope
check_config Check the current environment settings
check_full_install Check the full Triple'A installation results
check_sanitizer_results Check Sanitizer results
check_ta_install Check the Triple'A installation
create_golden_copy Create a Sqlite golden copy (-Dsrc_env_aaahome=-Dsrc_env_app_password=-Dsrc_env_host=-Ddebug_ddlgen=0)
db_cfg Configure DB
db_change_timezone Change the DB timezone
db_check Check the Database connection
db_create Create Database
db_drop Drop Database
db_start Start Database
db_stop Stop Database
exec_cip_automator Execute CIP Automator tests
info Show some properties values
install_ddl Install DDL. Default: -Diddl_object=dat -Diddl_domain=dict -Ddebug_ddlgen=0
install_from_scratch Install Triple'A from scratch
install_from_scratch_by_migrate Install Triple'A from scratch by migration (-Dsrc_env_aaahome=-Dsrc_env_app_password=-Dsrc_env_host=-Ddebug_ddlgen=0)
install_from_scratch_by_migrate_by_steps Install Triple'A from scratch by migration by steps (-Dsrc_env_name=-Ddebug_ddlgen=0)
install_from_scratch_by_step Install Triple'A from scratch by step
install_license Installation of license
install_pck_kit Install PCK Kit
install_sys_kit Install System Kit
migrate_one_entity Migrate one entity -Dentity=
ocs_check OCS Check
ocs_clean OCS Clean
ocs_deploy OCS full deployment
ocs_precomp_entity OCS Precomp Entity
ocs_start OCS Start
ocs_stop OCS Stop
refresh_all Refresh Triple'A all DDL objects and data
refresh_ddl Refresh Triple'A all DDL objects
refresh_home Refresh Triple'A Home
run_cip_automator Run CIP Automator tests (unconditional)
set Set property : -Dproperty=-Dvalue=
ta_clean Clean triplea_core/arch and target_distrib_dir
ta_cm Call _cm tool (-Dcm_option=g - only one option per call, -Dvs_version=2022)
ta_export Tripe'A Export using -Daaa_export_file= property for file
ta_git_fetch Triple'A git fetch
ta_git_pull Triple'A git pull
ta_git_status Triple'A git status
ta_import Tripe'A Import using -Daaa_import_file property for file

```

```

ta_import_entity Tripe'A Import entity using -Daaa_import_file= property for file
ta_install_config Install a Triple'A configuration (-Dconfig_name=)
ta_install_ddl_new Install ddl objects of last modified import files (-Doffset=)
ta_sql Tripe'A SQL using -Daaa_sql_file= -Duser -Dpassword property for file
ta_test_install Test Install before installation of T_AI data
ta_test_install_after Test Install after installation of T_AI data
ta_test_install_call Test Install for call one test case -Dtool= -Dtest_case= [-Duser= [-Dpassword=]]
ta_test_install_check Test Install for check tools
ta_update Update Triple'A project
test_data_cleanup Clean-up Test Data
test_data_update Update Test Data
tools_update Update Tools
upgrade_to_current_version Upgrade Triple'A to current version
vm_centos_stream Migrate to Centos Stream
vm_change_timezone Change the VM timezone
vm_resize_drive Resize VM drive
vm_shrink_drive Shrink VM drive
Default target: install_from_scratch
/home/aaa>
=====

```

#### Aliases for different scenarios

1. aa - Initialize environment in windows

```

/cygdrive/c/oams/tools->myenv
setenv l_vm_ora_hla_1 # release= | rdbms=ORACLE | test_data_scope=N/A | vm_name=l_vm_ora_hla_1 | db_host=192.168.56.31

```

#### Creating the vm and the environment:

```
$> $MY_TOOLS_DIR/create_env.sh
```

```

$> getenv - Lists all the environments from the central properties
$> getcfg - List of all the properties
$> listenv - Listing of all the environments
$> myenv - Display my environment properties
=====
```

Any changes to be done for the buils/deployment properties,

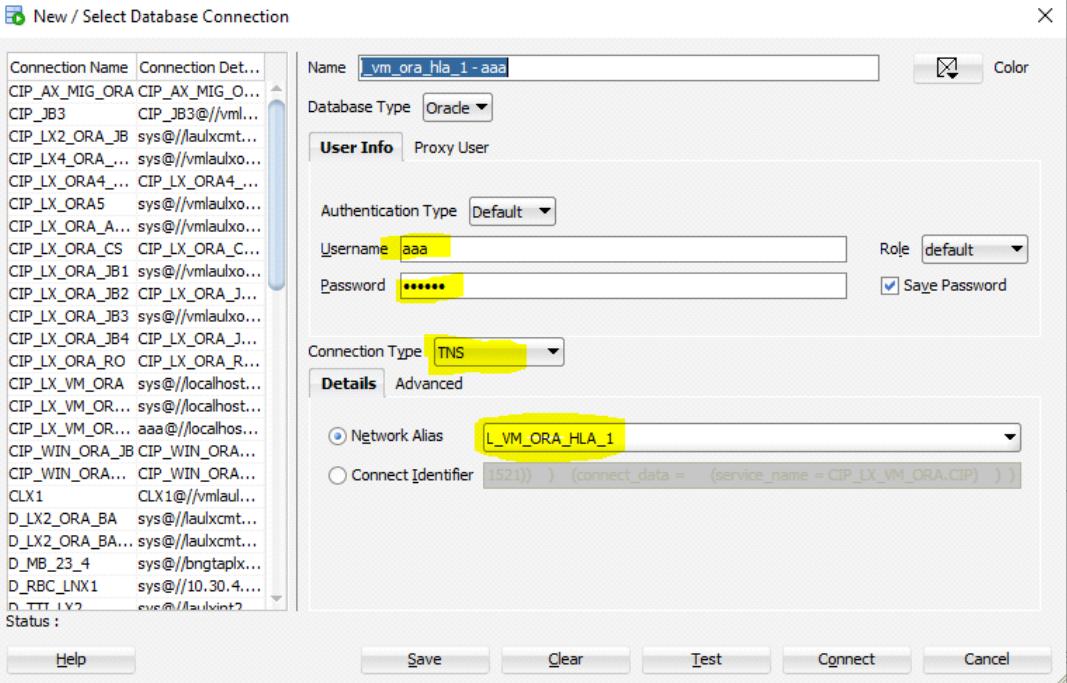
\$MY\_TOOLS\_DIR/cfg file.

#### Rebase and IFS testing:

1. Create separate branch for the rebase
2. Commit into remote local branch
3. Define this branch in git properties through ita
4. Run the automator
5. Push -force from the remote branch to upstream

#### Database Setup:

1. \$TNS\_ADMIN/tnsnames.ora - Make the entries
2. Use the connection type as tns as below



=====

### Steps for creating the environment setup

1. Checkout [https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/local\\_vm](https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/local_vm) to c:/oams/vm\_tools
2. \$MY\_TOOLS\_DIR/create\_env.sh
3. setenv cip\_lx\_ora\_aut2
4. /cygdrive/c/oams/tools->myenv
 

```
setenv cip_lx_ora_aut2 # release= | rdbms=ORACLE | test_data_scope=N/A | vm_name=cip_lx_ora_aut2 | db_host=192.168.56.32
setenv l_vm_ora_hla_1 # release= | rdbms=ORACLE | test_data_scope=N/A | vm_name=l_vm_ora_hla_1 | db_host=192.168.56.31
```
5. Login to vm with aaa/generic00
6. /home/aaa->check
 

```
Updating 'tools':
At revision 452567.
```

-----  
git version 2.27.0

-----  
Apache Ant(TM) version 1.10.10 compiled on April 12 2021

-----  
svn, version 1.10.2 (r1835932)

-----  
Please copy your ssh key on this VM  
Execute the following command on your Cygwin env, the password is (generic00)

-----  
scp ~/ssh/id\_rsa\* aaa@192.168.56.33:ssh/.

7. Login to windows. Perform scp from home to new vm
8. After copying again execute
  - a. ./tap/home> check
9. >ta info
10. Change the branch as
  - a. Ta set <property> <value>
11. Ready for the installation from scratch
  - a. >ita
12. >myenv

=====

```
vm_start is aliased to `c:/oams/tools/vm_start.sh'
vm_stop is aliased to `c:/oams/tools/vm_stop.sh'
vm_import is aliased to `c:/oams/tools/vm_import.sh'
vm_export is aliased to `c:/oams/tools/vm_export.sh'
vm_snapshot is aliased to `c:/oams/tools/vm_snapshot.sh'
vm_restore_current is aliased to `c:/oams/tools/vm_restore_current.sh'
```

```
vm_delete_snapshot is aliased to `c:/oams/tools/vm_delete_snapshot.sh'
vm_exit is aliased to `ta vm_stop && exit'
=====
```

# Flex and debugging yyparse

21 February 2023 19:41

Custom building and code generators in Visual Studio 2005

I'm a fervent fan of using code generator tools wherever possible to make your life easier. Although they come with issues related to effective building, diagnostics, and debugging, the amount of value they add to your application is immense: they can eliminate entire classes of potential bugs, save you a great deal of effort and time, make your module much easier to extend and maintain, and even yield runtime performance gains. Among the most frequently used code generator tools are the lexer and parser generators GNU [Flex](#) and [Bison](#), based on the classic generators lex and yacc. Although I'll get into the details of how to use these tools effectively at a later time, today what I want to show you is a practical example of how to use the new custom build features of Visual Studio 2005 to effectively incorporate a code generator into your automatic build process.

Here is a very simple Bison grammar for evaluating arithmetic expressions involving addition, subtraction, and multiplication:

```
/* example.y */
%{
#define YYSTYPE int
%}
%token PLUS MINUS STAR LPAREN RPAREN NUMBER NEWLINE
%left PLUS_MINUS
%left STAR
%%
line : /* empty */
 | line expr NEWLINE { printf("%d\n", $2); }
expr : LPAREN expr RPAREN { $$ = $2; }
 | expr PLUS expr { $$ = $1 + $3; }
 | expr MINUS expr { $$ = $1 - $3; }
 | expr STAR expr { $$ = $1 * $3; }
 | NUMBER { $$ = $1; }
;
%%
int yyerror (char const *msg)
{
 printf("Error: %s\n", msg);
}
int main()
{
 printf("%d\n", yyparse());
 return 0;
}
```

The Flex lexer used by this parser looks like this:

```
/* example.lex */
%{
#include "example.parser.h"
%}
%option noyywrap
%%
[\t]+ { /* ignore whitespace */ }
"(" { return LPAREN; }
")" { return RPAREN; }
"+" { return PLUS; }
"-" { return MINUS; }
"**" { return STAR; }
\n { return NEWLINE; }
[0-9]+ { yyval = atoi(yytext); return NUMBER; }
. { printf("Invalid character '%c'\n", yytext); }
%%
```

If we were writing this parser at a UNIX command line, we might generate the source files and compile the result using this sequence of commands:

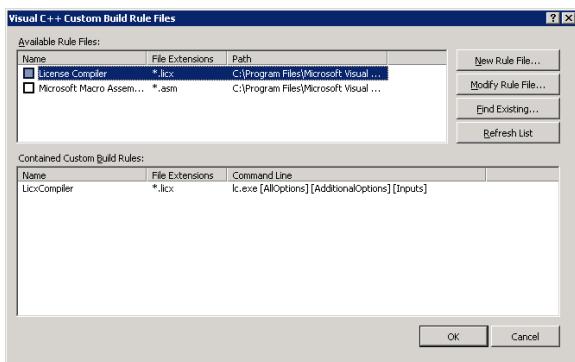
```
bison -v -d example.y -o example.parser.c
flex -oexample lexer.c example.lex
gcc -o example example lexer.c example.parser.c
```

Now say you wanted to build the same application for Windows using Visual Studio 2005. The tools are available on Windows (see [flex for Win32](#), [bison for Win32](#)), and you could simply run the same first two commands at the command-line and then build the resulting source files in Visual Studio. However, this simple approach sacrifices many of the advantages that Visual Studio provides for its built-in source file types: it doesn't rebuild the generated source files as needed, it doesn't allow you to jump to errors that occur during generation, and it doesn't allow you to configure build options using a nice GUI. Let's see how we can reclaim these advantages for Flex and Bison files.

## Creating a simple custom build type

Our first goal is simply to be able to build Flex and Bison files. First, use the Flex and Bison setup binaries from the links above to install the tools. A bin directory will be created in the installation directory. Add this to your system path. You should be able to execute both flex and bison from a command prompt without specifying a path.

Next, we create a new C++ console application. Uncheck the option to use precompiled headers - I'll explain how to use these with Flex and Bison later. Remove the main source file created for you by the wizard. Next, right-click the project in Solution Explorer and choose Custom Build Rules. The following dialog appears:

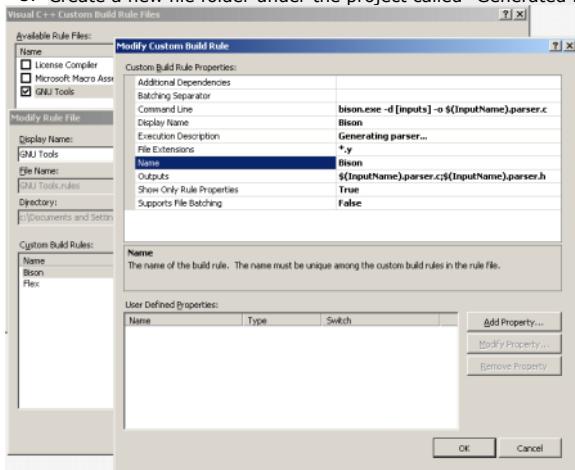


A *build rule* establishes how to build a file of a particular type. A group of related build rules are stored in a *build rule file*, which can be saved, distributed, and reused in many projects. We'll start by creating a new build rule file for our Flex and Bison rules:

1. Click New Rule File.
2. Enter "GNU Tools" for Display Name and File Name.
3. Choose a suitable directory for the build rule file. If it asks you if you want to add the directory to your search path, say yes.

Now we'll create a build rule for Bison files:

1. Click Add Build Rule.
2. Enter the following values:
  1. Name: Bison
  2. File Extensions: \*.y
  3. Outputs: \$(InputName).parser.c;\$(InputName).parser.h
  4. Command Line: bison -d [inputs] -o \$(InputName).parser.c
  5. Execution Description: Generating parser...
3. Click OK twice, then check the box labelled "GNU Tools" and click OK.
4. Add the *example.y* file above to your project. Right-click on the file and choose *Compile*. You should receive no errors.
5. Create a new file folder under the project called "Generated Files". Add the existing file *example.parser.c* to this folder.



If you build now, you should receive only an error complaining that *yylex()* is undefined. Now, go back to Custom Build Tools and click Modify Rule File on GNU Tools. Create a rule for Flex:

1. Click Add Build Rule.
2. Enter the following values:
  1. Name: Flex
  2. File Extensions: \*.lex
  3. Outputs: \$(InputName).lexer.c
  4. Command Line: flex -o\$(InputName).lexer.c [inputs]
  5. Execution Description: Generating lexer...
3. Click OK three times.
4. Add the *example.lex* file above to your project. Right-click on the file and choose *Compile*. You should receive no errors.
5. Add the existing file *example.lexer.c* to your project.

If you build now, you should receive no errors and be able to run the application successfully. Now in any project you can simply check the "GNU Tools" box, add the *.lex* and *.y* files to your project, and build. What happens if you modify the *example.y* and build? It runs Bison again and recompiles *example.parser.c*, because it was regenerated, and *example.lexer.c*, because it includes a header file that was regenerated. If we modify the *.lex* file, Flex is rerun and *example.lexer.c* is recompiled, but *example.parser.c* is not rebuilt. If you had a larger parser, you'd appreciate how much time this incremental rebuilding saves you.

#### Improving diagnostic support

Delete one of the "%%" marks in the *.y* file and build. Unsurprisingly, Bison fails. However, the Error List tells you no more than this. It'd be more helpful if you could find out what errors the tool produced. If you look at the output window, Bison did produce some errors, but if you double click on them to visit the error location, it just takes you to the top of the file. What gives?

The reason for this is that Visual Studio only recognizes one error format, that used by its own tools. Here's an example:

```
c:\myprojects\myproject\hello.cpp(10) : error C2065: 'i' : undeclared identifier
```

Bison doesn't output errors in this format, and so they aren't parsed. Flex uses yet another different format. What to do? The simplest way to deal with this is to invoke a simple script on the output of the tools as part of the build rule which parses the output and converts it to the desired format. You can write this script in any language; I wrote them in C# using the .NET Framework's regular expressions. Here's what I wrote inside the Main() function for the Bison converter tool (error checking and such omitted):

```

string line;
while ((line = Console.In.ReadLine()) != null)
{
 Match match = Regex.Match(line, "([^\:]+):([0-9]+)\\.[^\:]*:(.*");
 if (match != null)
 {
 Console.WriteLine("{0}{1}: error Bison: {2}",
 Path.GetFullPath(match.Groups[1].Value),
 match.Groups[2].Value, match.Groups[3].Value);
 }
 else
 {
 Console.WriteLine(line);
 }
}

```

I deploy the binary, say it's called BisonErrorFilter.exe, to the same directory as bison.exe. I then change the Command Line of the Bison build rule to the following (click the arrow in the right of the field to access a multiline text box):

```
bison.exe -d [inputs] -o $(InputName).parser.c > bison.err 2>&1
BisonErrorFilter < bison.err
```

If you compile the .y file now, any errors should appear in the error list, as desired, and you can double-click them to visit their locations. I wrote a similar script for the lexer output. Be careful when doing this, though, because if you miss any errors, Visual Studio might look at the error return of the last command and interpret it as success. A better way to do this would be to wrap the tool in a script that passes its arguments to the tool, collects the tool's output and return code, converts and prints the output, and then returns its return code.

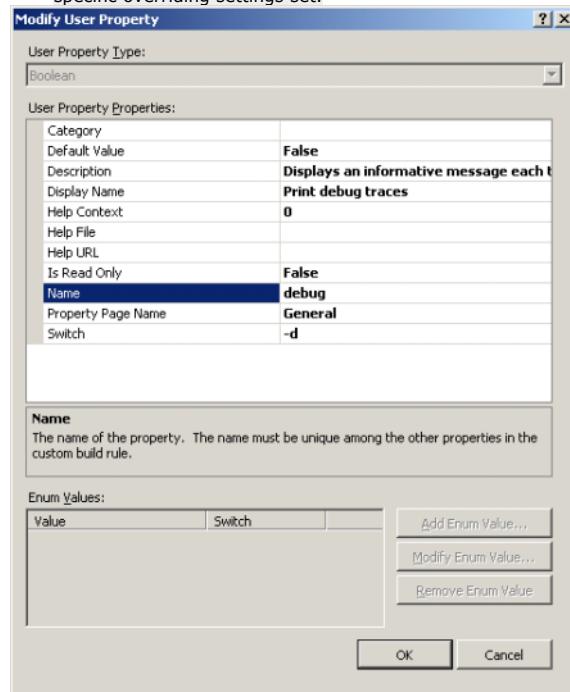
I haven't figured out how, but I believe it's possible to also create custom help entries for each error message, then have the filter tool produce the right error code for each one. This way, users can get help for each error individually by just clicking on it and pressing F1.

#### Properties

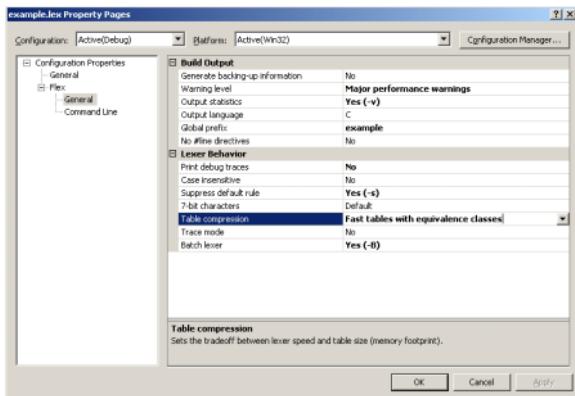
Properties enable you to control how the command-line tool is executed directly from the properties page for each individual file you wish to build with it. Let's start with a simple example: a handy lexer switch is -d, which prints out an informative message each time a token is recognized. We don't want it on all the time, and certainly not in release mode, but it'd be handy to be able to turn on and off as necessary.

To create a property for this, first return to the lexer build rule. Then follow these steps:

1. Click Add Property.
2. Choose Boolean for the User Property Type.
3. Enter the following values:
  1. Name: debug
  2. Display Name: Print debug traces
  3. Switch: -d
  4. Description: Displays an informative message each time a token is recognized.
4. Click OK. Then, add [-d] right after "flex" in the Command Line field.
5. Click OK three times.
6. Right-click on example.lex in Solution Explorer and choose Properties.
7. In the left pane, click the plus next to Flex. Click General.
8. You'll see your property. Click on it and its description will appear at the bottom. Set it to Yes.
9. Click Command Line in the left pane. You'll see that the -d flag has been added.
10. Click OK and build.
11. Run the app and type an arithmetic expression. You'll see trace messages.
12. View the project properties. You'll see that it now has a Flex node also. Here you can set the default settings for all files of that type in the project which don't have specific overriding settings set.



Adding more properties is just as simple. You can go through the man page for the tool and add properties for each switch, using the Category field to group them into categories. You can use the other property types for switches accepting arguments. If you want, you can create a detailed help file with additional explanation and examples for each switch. When you're done you have an impressive looking property sheet for your files reminiscent of those for built-in types:



You can also set different settings for debug and release builds. For example, for Flex, it's good to set table size to slowest and smallest for the Debug version, to speed up compilation, and to set it to the recommended full tables with equivalence classes for the Release version, which is a good tradeoff of table size and speed.

Finally, once you're done adding all the properties you like, you can take the resulting .rules files and give it to everyone on your team, or distribute it on a website, so that everyone can easily integrate the tool into Visual Studio. Perhaps eventually tools like Flex and Bison will ship with a .rules file.

#### Conclusion

In Visual Studio 2003 you would have had to write a plug-in to come close to achieving this level of integration with a third-party tool. Although it has limitations, I hope the problems solved by these new features help encourage you to incorporate more tools and code generation into your regular development. Now that you know how to use Flex and Bison from the Visual Studio IDE, next time I'll talk about how to use the tools themselves, going through some of the development and debugging processes that a grammar developer goes through, and show you some similar tools for other .NET languages. Thanks for reading, everyone.

Published Tuesday, September 13, 2005 1:15 PM by [dcoetze](#)

From <<http://basen.oru.se/kurser/koi/2012-2013-p1/windows-labbar/lab-3/custom-building.htm>>

# Postgres DB Commands

Saturday, February 19, 2022 11:40 AM

<https://tableplus.com/blog/2018/10/how-to-start-stop-restart-postgresql-server.html>

## 2. On Windows

First, you need to find the PostgreSQL database directory, it can be something like C:\Program Files\PostgreSQL\10\data. Then open Command Prompt and execute this command:

```
pg_ctl -D "C:\Program Files\PostgreSQL\9.6\data" start
```

- To stop the server

```
pg_ctl -D "C:\Program Files\PostgreSQL\9.6\data" stop
```

- To restart the server:

```
pg_ctl -D "C:\Program Files\PostgreSQL\9.6\data" restart
```

Another way:

- Open Run Window by Winkey + R
- Type services.msc
- Search Postgres service based on version installed.
- Click stop, start or restart the service option.

From <<https://tableplus.com/blog/2018/10/how-to-start-stop-restart-postgresql-server.html>>

## 3. On Linux

Update and install PostgreSQL 10.4

```
sudo apt-get update
sudo apt-get install postgresql-10.4
```

By default, the postgres user has no password and can hence only connect if ran by the postgres system user. The following command will assign it:

```
sudo -u postgres psql -c "ALTER USER postgres PASSWORD 'postgres';"
sudo -u postgres psql -c "CREATE DATABASE testdb;"
```

- Start the PostgreSQL server

```
sudo service postgresql start
```

- Stop the PostgreSQL server:

```
sudo service postgresql stop
```

From <<https://tableplus.com/blog/2018/10/how-to-start-stop-restart-postgresql-server.html>>

## Steps to download and install PostgreSQL 13.4 for CentOS 7

1.sudo yum install -y [https://download.postgresql.org/pub/repos/yum/reporpms/EL-7-x86\\_64/pgdg-redhat-repo-latest.noarch.rpm](https://download.postgresql.org/pub/repos/yum/reporpms/EL-7-x86_64/pgdg-redhat-repo-latest.noarch.rpm)

2.sudo yum install -y postgresql13-server-13.4 postgresql13-13.4

3.sudo /usr/pgsql-13/bin/postgresql-13-setup initdb

4.sudo systemctl enable postgresql-13

5.sudo systemctl start postgresql-13

6.sudo systemctl status postgresql-13

7.sudo yum -y install [https://download.postgresql.org/pub/repos/yum/srpms/12/redhat/rhel-7-x86\\_64/libpqxx-5.0.1-2.rhel7.1.src.rpm](https://download.postgresql.org/pub/repos/yum/srpms/12/redhat/rhel-7-x86_64/libpqxx-5.0.1-2.rhel7.1.src.rpm)

8.sudo yum -y install [https://download.postgresql.org/pub/repos/yum/12/redhat/rhel-7-x86\\_64/libpqxx-5.0.1-1.rhel7.1.x86\\_64.rpm](https://download.postgresql.org/pub/repos/yum/12/redhat/rhel-7-x86_64/libpqxx-5.0.1-1.rhel7.1.x86_64.rpm)

9.rpm -vv -Uvh /var/tmp/yum-root-GJT4mO/libpqxx-5.0.1-2.rhel7.1.src.rpm

10.sudo firewall-cmd --add-port=5432/tcp --permanent

11.sudo firewall-cmd --reload

## Documentation URL

[PostgreSQL: Documentation: 15: 34.1. Database Connection Control Functions](#)

**Connectivity:**

1. **Check Connection String:** Ensure that the connection string you're using to connect to the database includes a username. The connection string should look something like this:

```
bash Copy
postgres://username:password@hostname:port/database_name
```

For example:

```
bash Copy
postgres://user123:password123@pg002i009284.svc-np.paas.echonet:4305/mydatabase
```

2. **Verify Username in Client/Configuration:**

- If you are using a database client (like pgAdmin, DBeaver, or psql), ensure that the "username" field is filled correctly.
- If you are connecting via an application, make sure the username is set in the connection settings/configuration file.

3. **Check Environment Variables:**

- If you are connecting using environment variables (such as `PGUSER` or `PGPASSWORD`), ensure they are correctly set.
- You can verify the environment variable values with:

```
bash Copy
echo $PGUSER
echo $PGPASSWORD
```

4. **Connection from Command Line:** If you're using `psql` from the command line, ensure you specify the username with the `-u` flag:

```
bash Copy
psql -h pg002i009284.svc-np.paas.echonet -p 4305 -U username -d database_name
```

5. **Review Server Logs:** Check the PostgreSQL server logs on the host to see if any further error messages are provided when the connection is refused.
6. **Firewall / Network Issues:** If everything seems correct on the client-side, ensure that there are no firewall or network restrictions preventing you from connecting to the server.

## 1. Database Connection Parameters:

Make sure that you are passing the correct connection parameters (host, port, dbname, user, password, etc.) to the `PQconnectdb` function.

Example:

```
cpp Copy
const char *conninfo = "host=localhost port=5432 dbname=mydb user=myuser password=mypassword"
PGconn *conn = PQconnectdb(conninfo);
```

- Ensure that the `host`, `port`, `dbname`, `user`, and `password` values are correct.
- Make sure that PostgreSQL is running and accessible at the specified host and port.

## 2. Check PostgreSQL Server:

- Ensure that the PostgreSQL server is running. You can check the server status depending on your operating system.
  - On Linux (using systemd): `systemctl status postgresql`
  - On Windows, check services in the Task Manager.
- Confirm that PostgreSQL is configured to accept connections from your client (e.g., check `pg_hba.conf` for access settings).

## 3. Firewall Issues:

If the database is on a remote machine, ensure that there are no firewall rules blocking access to the PostgreSQL port (5432 by default).

## 4. Check Logs:

Review PostgreSQL's logs for any errors related to the connection attempt. On Linux, logs might be found in `/var/log/postgresql/` or `/var/log/syslog`. These logs can provide more details about the error.

## 5. Connection String Format:

Ensure that the connection string passed to `PQconnectdb()` is correctly formatted. Here's a checklist:

- Enclose each parameter in quotes (if needed).
- Separate parameters with spaces (or use `&` for some options).
- Ensure no extra spaces or syntax errors.

A correct connection string looks like this:

```
cpp Copy
const char *conninfo = "host=localhost port=5432 dbname=mydb user=myuser password=mypassword";
```

## 6. PostgreSQL Authentication:

- If you're using password authentication, verify that the password is correct.
- Check whether the database user has sufficient privileges to access the database.

## 7. Environment Variables:

Ensure that the PostgreSQL environment variables are set up correctly (like PGHOST , PGPORT , PGUSER , PGPASSWORD ).

## 8. Invalid Connection Object:

After calling `PQconnectdb()` , check whether the `PGconn` object is NULL or invalid:

```
cpp Copy
if (PQstatus(conn) == CONNECTION_BAD) {
 std::cerr << "Connection to database failed: " << PQerrorMessage(conn) << std::endl;
 PQfinish(conn);
 return;
}
```

This code will provide more specific information about the error.

## 9. `PQfinish()`:

Make sure you are calling `PQfinish()` when you're done with the connection to clean up resources.

# Advanced grep utility helps

Friday, February 25, 2022 10:26 AM

<https://www.codegrepper.com/code-examples/shell/check+if+file+contains+string+bash>

# Export Portfolio & Ext\_operation

Thursday, April 30, 2020 9:17 AM

1. Create application user in the business entity
2. ./aaa export -U hla -P hlahlal -e portfolio -o 'HLA\_PTF\_01'  
Executing /tap/CIP\_LX\_VM/aaahome/bin/Linux/aaa\_export.sh -U hla

Exporting Entity : portfolio ...

Output file is /tap/CIP\_LX\_VM/aaahome/tmp/HLA\_PTF\_01portfolio.imp

# mvn commands - ocs build - design studio setup.

Monday, February 21, 2022 11:23 PM

## Useful commands

mvn --help

to get available options

mvn -N install

work on current pom.xml, do not recurse into sub-projects

mvn -o install

work offline

mvn -npu install

prevent update of plugins

mvn -U -up install

force update of plugins and snapshots

mvn dependency:tree

display the dependency tree like above

```
[dependency:tree]
com.odcgroup.otf.mdf.jpa:mdf-jpa-dataset-test-models-gen:jar:1.40.0-SNAPSHOT
+- com.odcgroup.otf.mdf.jpa:mdf-jpa-dataset-test-models:ds-models:1.40.0-SNAPSHOT:compile
+- org.apache.openjpa:openjpa:jar:1.2.0:compile
| +- net.sourceforge.serp:serp:jar:1.13.1:compile
| | \- junit:junit:jar:4.4:test (version managed from 3.8.1; scope managed from compile)
| +- commons-logging:commons-logging:jar:1.0.4:compile
| +- commons-lang:commons-lang:jar:2.1:compile
| +- commons-collections:commons-collections:jar:3.2.1:compile (version managed from 3.2)
| +- commons-pool:commons-pool:jar:1.3:compile
| +- org.apache.geronimo.specs:geronimo-jms_1.1_spec:jar:1.0.1:compile
| +- org.apache.geronimo.specs:geronimo-jta_1.1_spec:jar:1.1:compile
| \- org.apache.geronimo.specs:geronimo-jpa_3.0_spec:jar:1.0:compile
+- com.odcgroup.ocs.mdf:mdf-core:jar:1.30.6-SNAPSHOT:compile
| +- com.odcgroup.ocs.otf:otf-utils:jar:1.30.6-SNAPSHOT:compile
| | +- net.sf.ehcache:ehcache:jar:1.4.0:compile
| | | \- net.sf.jsr107cache:jsr107cache:jar:1.0:compile
| | \- com.odcgroup.thirdparty.sun.jmxri:jmxri:jar:1.2.1:compile
| +- bcel:bcel:jar:5.1:compile
| +- commons-jxpath:commons-jxpath:jar:1.2:compile
| | +- xml-apis:xml-apis:jar:1.0.b2:compile
| | +- jdom:jdom:jar:b9:compile
| | \- commons-beanutils:commons-beanutils:jar:1.4:compile
| +- commons-cli:commons-cli:jar:1.0:compile
| +- net.sourceforge.jexcelapi:jxl:jar:2.6:compile
| +- backport-util-concurrent:backport-util-concurrent:jar:3.1:compile
| \- log4j:log4j:jar:1.2.12:compile
\- com.odcgroup.otf.jpa:otf-jpa:jar:1.40.0-SNAPSHOT:compile
 +- com.odcgroup.thirdparty.sybase:jconn3:jar:6.0.5.25828:runtime
 +- org.apache.derby:derby:jar:10.3.2.1:runtime
 +- com.odcgroup.ocs.fmk_aaa:aaa-security:jar:1.30.6-SNAPSHOT:compile
 | +- com.odcgroup.ocs.otf:otf-security:jar:1.30.6-SNAPSHOT:compile
 | +- com.odcgroup.ocs.otf:otf-persist:jar:1.30.6-SNAPSHOT:compile
 | | \- com.odcgroup.thirdparty.netscape.ldap:ldapjdk:jar:4.1:compile
 | +- com.odcgroup.ocs.otf:otf-audit:jar:1.30.6-SNAPSHOT:compile
```

```

| | +- com.odcgroup.ocs.otf:otf-scheduler:jar:1.30.6-SNAPSHOT:compile
| | +- com.odcgroup.ocs.otf:otf-messaging:jar:1.30.6-SNAPSHOT:compile
| | \- bouncycastle:bcprov:jar:jdk14-138:compile
| \- com.odcgroup.thirdparty.sybase:jconn2:jar:5.5:compile
\- com.odcgroup.ocs.otf:otf-core:jar:1.30.6-SNAPSHOT:compile
 +- jakarta-regexp:jakarta-regexp:jar:1.5:compile
 +- commons-dbcpc:commons-dbcpc:jar:1.2.1:compile
 +- org.apache.ant:ant:jar:1.7.1:compile
 | \- org.apache.ant:ant-launcher:jar:1.7.1:compile
 +- commons-digester:commons-digester:jar:1.6:compile
 \- xalan:xalan:jar:2.7.1:compile

```

mvn clean install site

mvn install -DskipTests

mvn enforcer:display-info

mvn dependencies:resolve

mvn help:effective-pom

mvn help:effective-settings

mvn help:active-profiles

mvn help:describe -Dplugin=help -Dfull

mvn checkstyle:checkstyle

mvn checkstyle:check

mvn -Dmaven.surefire.debug test

mvn -Dmaven.surefire.debug="-Xdebug -Xrunjdwp:transport=dt\_socket,server=y,suspend=y,address=8000 -Xnoagent -Djava.compiler=NONE" test

mvn plugin:download

-DartifactId=maven-findbugs-plugin

-DgroupId=maven-plugins

-Dversion=1.0-SNAPSHOT

-Dmaven.repo.remote=http://maven.oams.com

=====

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# TEMENOS

The Banking Software Company

## MavenInfrastructurePOC

- [Attachments:3](#)
- Added by [Samuel Vetsch](#), last edited by [Samuel Vetsch](#) on 2008-03-13 ([view change](#))

## Introduction

The goal of this task is to define the common infrastructure needed by a maven build. This also includes the maven processes, i.e. how do we create a release. We will NOT cover here the various maven plugins needed to build artifacts.

## Glossary

Here is an explanation of the key terms used in this document. It is very important that everyone uses the same vocabulary.

| Term          | Explanation                                                                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICS           | Internal Component Suite. Practically, it is team responsible of a set of <b>Component</b> . Example: CACM, FMK-TF                                                                           |
| Component     | Component is a dedicated engine that provides a specialized and limited business service. It is composed by a set of <b>projects</b> . It is also referred as a CMS project in the CMS world |
| Project       | It is set of files which will be used to produce an artifact like a jar, a war, a wuiblock, etc.. It used to be an eclipse project                                                           |
| POM           | Project Object Model, it is the file describing a maven artifact. Each Component will have its pom and every projects contained in the component will also have their pom                    |
| Insulated     | This is a development mode where we use only baselined content                                                                                                                               |
| Collaborative | This is a development mode where we use baselined and non-baselined content                                                                                                                  |

## The global picture

The following elements are needed to use maven:

- Maven runtimes installed locally
- Maven settings installed locally
- Maven repositories
- Processes to known how to interact with previous items

We will discuss in following chapter these elements in details.

## Maven runtimes

Maven runtime is small, around 2MB. It comes as a compressed archive. You have to uncompress into a folder. The current version is 2.0.8. Let's say we put it into:

**Maven runtime location**  
C:\maven

We define now the environment variable **M2\_HOME** to that location. We then have to update the path accordingly:

**Env. variable update**  
M2\_HOME=C:\maven  
PATH=%M2\_HOME%\bin;%PATH%

Now if you run the **mvn -version** command anywhere, you should have:

```
C:\>mvn -version
Maven version: 2.0.8
Java version: 1.4.2_13
OS name: "windows xp" version: "5.1" arch: "x86" Family: "windows"
```

## Maven settings

Maven uses 2 config files to work:

- \$M2\_HOME/conf/settings.xml : the global maven configuration file
- \$HOME/.m2/settings.xml : your personal maven configuration file (optional)

## The global maven configuration file

The global maven configurations stores information like:

- Repository references
- Global environment variables
- Corporate plugin default groupId

## The personal maven configuration file

The personal maven configuration file stores information like:

- Username/password for deploying artifacts
- Custom local repository path

## Maven repositories

Maven repository are a key features of maven. The goal of a repository is to contain artifacts. An artifacts is file which represents a result of a build. It may be a jar, a war or anything you define. The properties of an artifact are:

- groupId :
- artifactId :
- version :
- classifier :
- type :

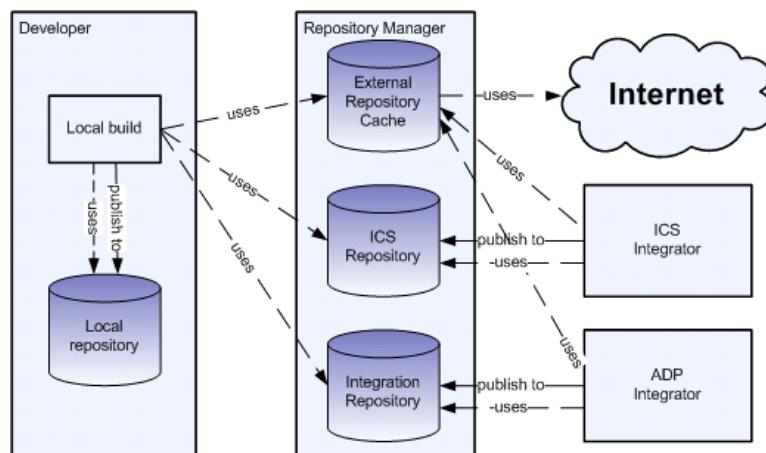
Maven defines a default public repository : <http://repo1.maven.org/maven2>. For an enterprise use, we must define a repository cache to prevent multiple access from every developer computer. This repository cache is configured to be as transparent as possible to the developer, so it acts as a proxy.

Currently, 2 maven proxy and repository managers are under evaluation:

- Artifactory - <http://www.jfrog.org/sites/artifactory/latest/>
- Apache Archiva - <http://maven.apache.org/archiva/>

A third one was to be evaluated "Proximity" but its website remains down (which is not a very good perenity indicator...).

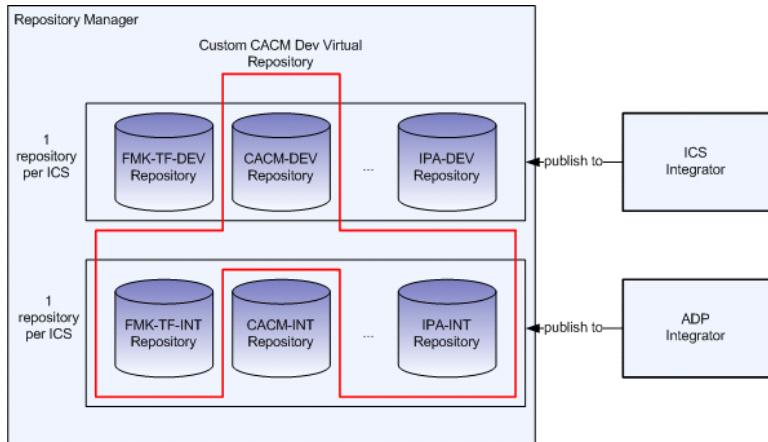
The global repository picture is:



To simulate the "Collaborative" and "Insulated" mode, we use a feature of "Artifactory" which is called **Virtual Repository**. The Virtual Repository is simply an aggregation at the repository manager level of multiple repository. Depending on the ICS or even developer needs, we can define multiple virtual

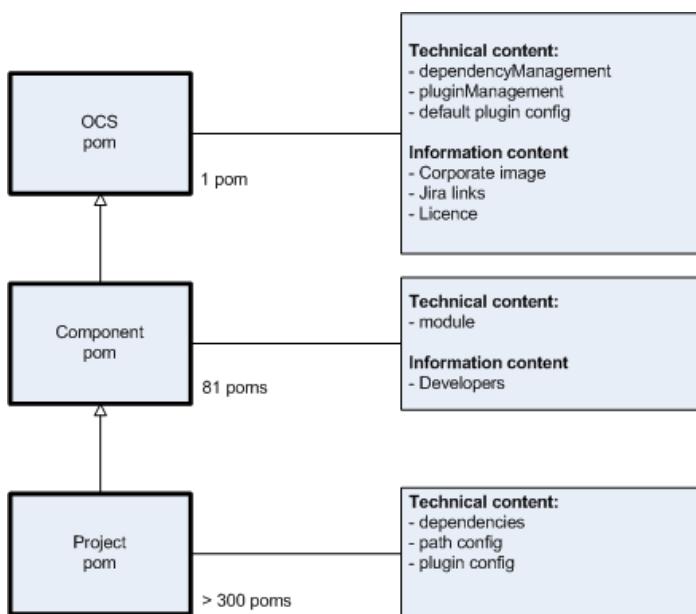
repositories to fit exactly our needs.

Example:



## Maven project hierarchy

By default, we define 3 levels of hierarchy:



These levels are:

- OCS level, global level
- Component level
- Project level

## Processes

Processes are needed to ensure everyone uses the tools in a correct way. We define processes based on user use -cases.

**An ICS developer develops in an insulated mode**

**An ICS developer develops in a collaborative mode**

**Release creation**

To finalize a release, we must:

1. Perform a full build using maven to ensure everything is OK  
mvn deploy -DperformRelease
2. Create a CMS task
3. Checkout **EVERY** pom.xml of every project
4. Replace upon a pattern snapshot version into release version (1.30.4-SNAPSHOT becomes 1.30.4). This must be made automatically by a script or a maven plugin
5. Perform a full build using maven using a particular profile (-P...) to ensure artifacts are published into the correct release repository  
mvn deploy -DperformRelease -PADP
6. Checkin the CMS task
7. Create a new release in CMS
8. Create a CMS task
9. Checkout **EVERY** pom.xml of every project
10. Replace upon a pattern release version into next snapshot version (1.30.4 becomes 1.30.5-SNAPSHOT). This must be made automatically by a script or a maven plugin
11. Checkin the CMS task

## A continuous builder builds OCS components

### Hotfix creation

### Rules

We define here some rules to help everyone to remember the good processes.

### During the development life cycle, every OCS version is a SNAPSHOT

During the development life cycle, every OCS artifact version has the form (for example):

1.30.4-SNAPSHOT

This force maven to continuously check for new version in the corporate repositories.

### Dependency scopes are configured correctly

Maven defines the following artifact scopes:

- compile
- provided
- runtime
- test
- system

More details can be found in <http://maven.apache.org/guides/introduction/introduction-to-dependency-mechanism.html>

These scopes must be used correctly, specially every test class should have a test scope.

#### Labels:

None

- Powered by [Atlassian Confluence](#) 3.5.17, the [Enterprise Wiki](#)
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From <<http://wikiorg.temenosgroup.com/display/ARCH/MavenInfrastructurePOC>>

## Building

OCS 5.0 needs Maven 3 to be built.

- download maven-3.0 from [\\oams.com\Software\R&D\\_Architecture\EDS-ODBP\Dev\EDS-tools.zip](http://oams.com/Software/R&D_Architecture/EDS-ODBP/Dev/EDS-tools.zip) and extract it into your C:\EDS\maven folder
- modify M2\_HOME environment variable to C:\EDS\maven\apache-maven-3.0
- check your PATH environment variable: it should contains %M2\_HOME%\bin

- you are ready to run mvn commands from command prompt!

# Deploying

## From release repository

That is the standard way to deploy OCS. You can also include hotfixes or custom repositories.

- get OCS5.0.zip and OCSUpdate\_Installer.jar from [\\oams.com\Software\Incoming Packages\OCS\5.0\disk1\distribution](http://oams.com/Software/Incoming%20Packages/OCS%205.0/disk1/distribution)
- java -jar OCSUpdate\_Installer.jar

Installer will ask you to input settings related to your environment then deployment will start.

## From repository of external Maven runtime (i.e. C:\EDS-maven-repository)

During development, if you want to install OCS including one or several artifacts you modified, you need to:

- build successfully the components you modified and install them into your local repository (mvn clean install)
- select Developer mode (installer.installation.mode = workspace) then External repository (installer.repo.mode = external) in installer page flow

Installation will be based on artifacts located in repository of external Maven (indicated by M2\_HOME environment variable). If needed, Maven will download from Nexus repository artifacts that are not up-to-date (from nightly build for example). Release repository (OCS5.0.zip) and hotfixes and custom repositories will not be taken into account.

If you want to create a new release repository, run "mvn clean package" into imf/imf-packaging/ocs-repo folder and get OCS5.0.zip from imf/imf-packaging/ocs-repo/target folder.

If you want to create a new installer, run "mvn clean package" into imf/imf-packaging/ocs-installer folder and get OCSUpdate\_Installer.jar from imf/imf-packaging/ocs-installer/target folder.

From <<http://wikiorg.temenosgroup.com/display/DEVWIKI/Building+and+deploying+OCS+from+5.0+release>>

## Design Studio Version

DesignStudioTAP-noBinaries-202403.0.0

[/nas/delivery/incoming\\_packages/SDK-DS/202403.0.0/Core/DesignStudioTAP-noBinaries-202403.0.0.zip](/nas/delivery/incoming_packages/SDK-DS/202403.0.0/Core/DesignStudioTAP-noBinaries-202403.0.0.zip)

Project for IRIS  
C:\MAVEN\_WSC\_CODE\WSC-DEV\WSDDEV\wsc-dev-code\src\IRIS\irf-tap-application

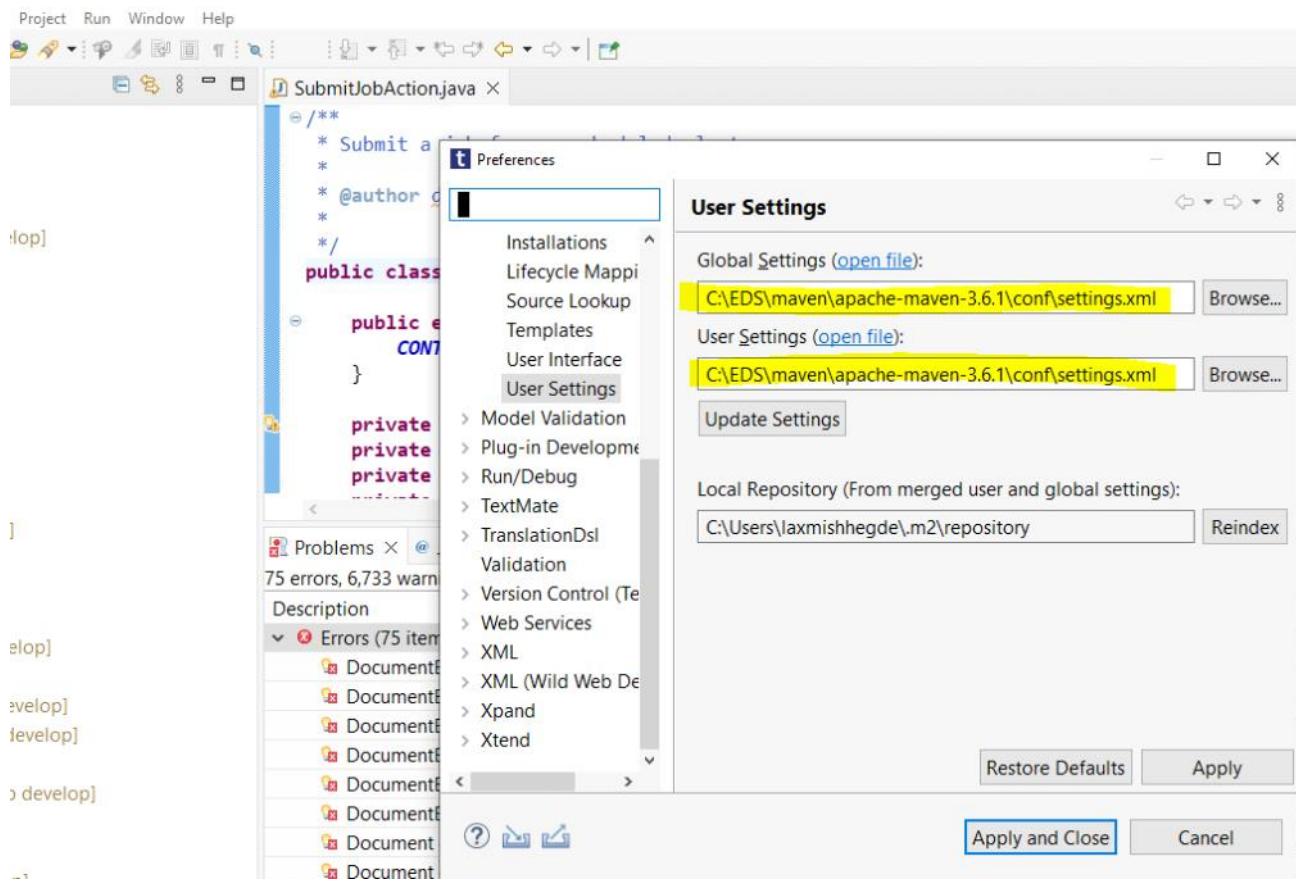
TSL repo

Irftap-application.properties  
Irftap-services

Dataset.json

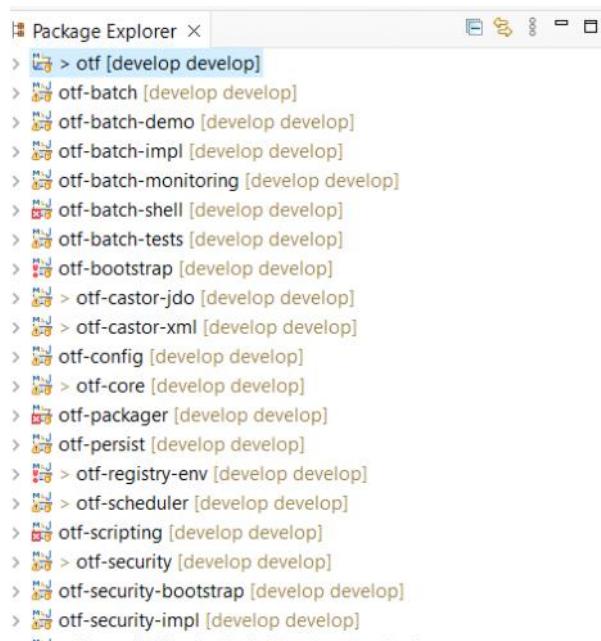
Irftap-application  
README.md

## Maven settings



### Build each project:

Choose java perspective-> right click each project -> Run as -> maven Build



# Finserver Pool Configuration

Friday, March 18, 2022 8:02 PM

<http://rd.temenosgroup.com/browse/PMSTA-39659>

Refer to the attached validation xls for the details of the setup in PMSTA-39659

[\\lausanshare\wealth\\_software\products\WS\R22.01\OCS\disk1\documentation\Installation Guides\FrontOfficeWeb\\_InstallationGuide](\\lausanshare\wealth_software\products\WS\R22.01\OCS\disk1\documentation\Installation Guides\FrontOfficeWeb_InstallationGuide)

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22030701610>>

TAP core:

1. Create the pool name as *default* and create all the other financial servers in composition
2. All-in-one-properties: Financial server still be defined as default financial server
3. No need to define the pool into the all-in-one properties file.
4. OCS will find out the pool details from the server\_running and route to the any financial servers.

## Finserver Pool setup through configuration

`<property name="nb_fin_servers" value="4"/>`

Not sure if it still works

Formally, the right way to create more fin servers is :

- 1) Update aaa\_install.cfg to add the new servers
- 2) Update aaa\_srv.ini accordingly
- 3) Run aaa\_install.cfg ... srv ...
- 4) Then a start-all should start them all as opensrv.lis has been properly updated with all servers at step 3)

To do it "out of the normal process"

- ➔ Insert the entry in server\_connect using import file
- ➔ Ideally create a financial server pol "default" using import file
- ➔ insert an entry in server\_pool\_compo for the new server (must been created first)
- ➔ Add the server in aaa\_srv.ini
- ➔ Add the server in opensrv.lis

Note this second procedure works well on oracle (ok for UTP) but on sybase you shall still probably have to add an entry in sysservers as well (sp\_addserver)

## All the batch service properties configurations found in:

tasc-services/tsl-config/src/main/resources/META-INF/batch/common

tasc-services/tsl-config/src/main/resources/META-INF/config/otf-registry-extension.xml

# OCS Jobs Monitoring - financial server pool configuration

Thursday, April 30, 2020 9:17 AM

:>fin-srv-ds

Shows all the active financial servers

:> monitor-job -I 1234567 <job id>

Job details which is running

:> fin-srv-ds add V\_ORA\_AIX\_FUS1 laulpar04.temenosgroup.com 14910

:> fin-srv-ds add V\_ORA\_AIX\_FUS2 laulpar04.temenosgroup.com 15910

To add the financial servers.

:> fin-srv-pool

Shows all the financial servers available to add to the pool

1. In off-shell.sh prompt, run the command fin-srv-ds command to check the number of financial servers linked to WUI. There will be no additional servers defined.

2. Run the submit-bpi-job using the following command on a list of portfolios.

submit-bpi-job tsl-precomp-entity-job.xml -DentityDimE=2 -Dentity=portfolio -DentityDimCode=MAC\_PTF\_LIST. Check the time taken to complete the job using the monitor -i job\_id command. The job was completed in 46 seconds.

3. Check the server.log. The TSL job runs on only on server.

4. In off-shell.sh prompt, add the three existing financial servers using the fin-srv-ds add command.

5. Add the financial servers to a financial server pool using fin-srv-pool commands.

Assign queues job-large and tsl-precomp-entity to the financial server pool.

6. Restart the OCS components. In off-shell.sh, run the TSL job with the following command:

submit-bpi-job tsl-precomp-entity-job.xml -DentityDimE=2 -Dentity=portfolio -DentityDimCode=MAC\_PTF\_LIST. Check the time taken for the job to complete. The job had taken 61 seconds to complete as opposed to 46 seconds with one financial server.

7. Check the server.log. The job is distributed between different financial servers.

From <<http://rd.temenosgroup.com/browse/PCC-22109>>

:> job-launcher-stats

j0-queue-[type]-[priority] queues are handling job instances

j1-queue-[type]-[priority] queues are handling job executions

Queue statistics

| Queue                   | Queue   | Queue   | Queue   | Queue     | ThreadPool  | ThreadPool | ThreadPool | ThreadPool |        |
|-------------------------|---------|---------|---------|-----------|-------------|------------|------------|------------|--------|
| Name                    | Min     | Avg     | Max     | WaterMark | CurrentSize | MaxSize    | Size       | WaterMark  | Active |
|                         | Waiting | Waiting | Waiting |           |             |            |            |            |        |
|                         | [ms]    | [ms]    | [ms]    |           |             |            |            |            |        |
| j0-queue-default-0      | 6       | 101     | 196     | 2         | 0           | -1         | -1         | -1         | 0      |
| j0-queue-other-large-10 | N/A     | N/A     | 0       | 0         | 0           | -1         | -1         | -1         | 0      |
| j0-queue-other-medium-7 | N/A     | N/A     | 0       | 0         | 0           | -1         | -1         | -1         | 0      |
| j0-queue-other-small-4  | N/A     | N/A     | 0       | 0         | 0           | -1         | -1         | -1         | 0      |
| j0-queue-reporting-2    | N/A     | N/A     | 0       | 0         | 0           | -1         | -1         | -1         | 0      |

| jobLauncherThreadPoolTaskExecutor-26 | j1-queue-tsl-precomp-entity-4 | 0d 0h 10m 47s 845ms | JobInstanceId:69893708 Nature:main Chunk:6

| jobLauncherThreadPoolTaskExecutor-28 | j1-queue-tsl-precomp-entity-4 | 0d 0h 10m 47s 845ms | JobInstanceId:69893708 Nature:main Chunk:1

| jobLauncherThreadPoolTaskExecutor-3 | j1-queue-tsl-precomp-entity-4 | 0d 0h 10m 47s 845ms | JobInstanceId:69893708 Nature:main Chunk:3

| jobLauncherThreadPoolTaskExecutor-47 | j1-queue-tsl-precomp-entity-4 | 0d 0h 10m 47s 845ms | JobInstanceId:69893708 Nature:main Chunk:7

:>job-launcher-config

:> config

Refreshing configuration module jackrabbit-repository

Looking for configuration module jackrabbit-repository

Cannot find configuration file for module jackrabbit-repository

Looking for dynamic cfg-patch for module jackrabbit-repository

0 cfg-patch found!

0 ignored cfg-patch found!

Content of final module jackrabbit-repository

Refreshing configuration module local-ehcache

Looking for configuration module local-ehcache

jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/config/local-ehcache.xml

Looking for dynamic cfg-patch for module local-ehcache

1 cfg-patch found!

jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/cbi-common-config.jar!/META-INF/dcfg-patch/CBI\_\_local-ehcache\_\_.patch

0 ignored cfg-patch found!

Content of final module local-ehcache

Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/local-ehcache.xml

Refreshing configuration module nbox

Looking for configuration module nbox

Cannot find configuration file for module nbox

Looking for dynamic cfg-patch for module nbox

0 cfg-patch found!

0 ignored cfg-patch found!

Content of final module nbox  
 Refreshing configuration module oetf-joblauncher-config  
 Looking for configuration module oetf-joblauncher-config  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/oetf-config.jar!/META-INF/config/oetf-joblauncher-config.xml  
 Looking for dynamic cfg-patch for module oetf-joblauncher-config  
 2 cfg-patch found!  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/jbo70-config.jar!/META-INF/dcfg-patch/jbo-\_oetf-joblauncher-config\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/reporting-config.jar!/META-INF/dcfg-patch/x0-RPT-\_oetf-joblauncher-config\_\_.patch  
 0 ignored cfg-patch found!

Content of final module oetf-joblauncher-config  
 Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/oetf-joblauncher-config.xml  
 Refreshing configuration module operator  
 Looking for configuration module operator  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/config/operator.properties  
 Looking for dynamic cfg-patch for module operator  
 0 cfg-patch found!  
 0 ignored cfg-patch found!  
 Content of final module operator  
 Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/operator.properties  
 Refreshing configuration module otf-audit  
 Looking for configuration module otf-audit  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/config/otf-audit.xml  
 Looking for dynamic cfg-patch for module otf-audit  
 0 cfg-patch found!  
 0 ignored cfg-patch found!  
 Content of final module otf-audit  
 Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/otf-audit.xml  
 Refreshing configuration module otf-cache  
 Looking for configuration module otf-cache  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/config/otf-cache.xml  
 Looking for dynamic cfg-patch for module otf-cache  
 19 cfg-patch found!  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/cbi-common-config.jar!/META-INF/dcfg-patch/CBI-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/tapeur-config.jar!/META-INF/dcfg-patch/EUR-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/aaa-config.jar!/META-INF/dcfg-patch/FMK\_AAA-ORGA-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/aaa-config.jar!/META-INF/dcfg-patch/FMK\_AAA-SECURITY-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/aaa-config.jar!/META-INF/dcfg-patch/ORG-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/organic-config.jar!/META-INF/dcfg-patch/OTF-MESSAGING-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-ODATA-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-SCHEDULER-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-SECURITY-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-SECURITY-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-UTILS-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/tsl-remoting-config.jar!/META-INF/dcfg-patch/REMOTING-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/repository-config.jar!/META-INF/dcfg-patch/REP-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/reporting-config.jar!/META-INF/dcfg-patch/RPT-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/dcfg-patch/TSL-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/wui-user-session-registry.jar!/META-INF/dcfg-patch/UIF-SESSION-\_otf-cache\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/wui-config.jar!/META-INF/dcfg-patch/UIF-\_otf-cache\_\_-castor.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/wui-config.jar!/META-INF/dcfg-patch/WUI-\_otf-cache\_\_.patch  
 0 ignored cfg-patch found!  
 Content of final module otf-cache  
 Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/otf-cache.xml  
 Refreshing configuration module otf-check  
 Looking for configuration module otf-check  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/config/otf-check.xml  
 Looking for dynamic cfg-patch for module otf-check  
 5 cfg-patch found!  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-\_otf-check\_\_advdb.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-\_otf-check\_\_sybase.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-https-\_otf-check\_\_as.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/dcfg-patch/TSL-\_otf-check\_\_.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/jbo70-config.jar!/META-INF/dcfg-patch/jbo-\_otf-check\_\_.patch  
 0 ignored cfg-patch found!  
 Content of final module otf-check  
 Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/otf-check.xml  
 Refreshing configuration module otf-messaging\_folder  
 Looking for configuration module otf-messaging\_folder  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/config/otf-messaging\_folder.xml  
 Looking for dynamic cfg-patch for module otf-messaging\_folder  
 2 cfg-patch found!  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/otf-config.jar!/META-INF/dcfg-patch/OTF-\_otf-messaging\_folder\_\_-audit.patch  
 jar:file:/oams/v\_scb\_ora/ocs/current/temp/ocs-bootstrap-ear-cache/xdi-config.jar!/META-INF/dcfg-patch/XDI-\_otf-messaging\_folder\_\_.patch  
 0 ignored cfg-patch found!  
 Content of final module otf-messaging\_folder  
 Dumped into /oams/v\_scb\_ora/ocs/current/temp/ocs-config-files/otf-messaging\_folder.xml  
 Refreshing configuration module otf-monitoring  
 Looking for configuration module otf-monitoring

## 1) config joblauncher

/otf-shell.sh config  
to extract all embedded config files -> otf-joblauncher-config.xml

currently:  
tsl-precomp-entity : 4 jobs parallel 8 threads max  
this is still the default configuration

### Recommendation

For now change the configuration to have 16 processing threads instead of 8

When we will have fixed the issue on performance computation (see after) the CPU load on TAP machine should be lower and more balanced with load and DB, therefore we may try to increase a bit more : 24 or 32

(take also into consideration that the machine is shared with another environment)

Note: also adapt accordingly joblauncher.initial.thread.count in all-in-one.properties and validate the configuration by running the sanity-check (see below)

## 2) sanity check

otf-shell.sh -f otf-shell/sanity.otf-shell

| Domain Attribute Key Check | sanity | UNKNOWN | 1 | Domain key encoding check:<br>Unable to check, ensure the<br>TSLDB datasource is correctly configured ! |
|----------------------------|--------|---------|---|---------------------------------------------------------------------------------------------------------|
|----------------------------|--------|---------|---|---------------------------------------------------------------------------------------------------------|

This error is not relevant in the context of tsl precomp job. However, check if the config is correct. If yes open jira

## 3) Try to run the small precomp job as is for reference

```
submit-bpi-job -D entity=portfolio -D mode=UPDATE -D entityDimE=2 -D entityDimCode=RBC_CD_ALL_CHILD_SK -t 7200 -w tsl-precomp-entity -j job.xml
```

Public  
This message is part of a tracked conversation. Click here to find all related messages or to open the original flagged message.  
submit-bpi-job -D entity=portfolio -D mode=UPDATE -D entityDimE=2 -D entityDimCode=RBC\_CD\_ALL\_CHILD\_SK -t 7200 -w tsl-precomp-entity -j job.xml

Very slow, especially when computing performance  
(see after)

## 4) fin server pool

default : FUS1, FUS2  
tsl-precomp-entity : FUS, FIN

The fin servers are correctly used.  
OK

## 5) opti\_stat

Check the financial server's cache

| #EXEC opti_stat                | go  | Purge | Name | Action        | Record Number | Max Number | Memory Used | Output Dynet | Call Number | Cache Hit Number | Cache Hit Percent | Cache |
|--------------------------------|-----|-------|------|---------------|---------------|------------|-------------|--------------|-------------|------------------|-------------------|-------|
| get_all_bal_pos_type_by_id     | Get |       |      | A_BalPosTp    |               |            | 13496       |              | 13495       |                  | 99                |       |
| get_en_bal_pos_type_by_cd      | Get |       |      | S_BalPosTp    |               |            | 36453       |              | 36452       |                  | 99                |       |
| get_en_currency_by_cd_cld      | Get |       |      | S_Curr        |               |            | 14804       |              | 14799       |                  | 99                |       |
| get_en_deposit_by_id           | Get |       |      | S_Curr        |               |            | 7872        |              | 7648        |                  | 99                |       |
| get_all_deposit_by_id          | Get |       |      | A_Depo        |               |            | 216         |              | 95          |                  | 11                |       |
| get_all_geographic_by_id       | Get |       |      | A_Geo         |               |            | 45          |              | 31          |                  | 64                |       |
| get_exd_instrument_by_id       | Get |       |      | A_Instr       |               |            | 749         |              | 543         |                  | 75                |       |
| get_en_instrument_by_cd_cld    | Get |       |      | S_Instr       |               |            | 4           |              | 2           |                  | 50                |       |
| get_en_instrument_by_cd        | Get |       |      | S_Instr       |               |            | 6           |              | 4           |                  | 66                |       |
| get_exd_instrument_by_cld      | Get |       |      | A_Instr       |               |            | 22          |              | 14          |                  | 63                |       |
| get_all_instr chrono_by_id_dim | Get |       |      | A_InstrChrono |               |            | 105521      |              | 105010      |                  | 97                |       |
| get_en_portfolio_by_cd_cld     | Get |       |      | A_Ptf         |               |            | 276         |              | 8           |                  | 2                 |       |
| get_en_portfolio_by_cd         | Get |       |      | S_Ptf         |               |            | 0           |              | 0           |                  | 0                 |       |
| get_all_third_party_by_id      | Get |       |      | S_Ptf         |               |            | 5           |              | 0           |                  | 0                 |       |
| get_all_type_by_id             | Get |       |      | A_Third       |               |            | 4449        |              | 4457        |                  | 95                |       |
| get_en_type_by_cd_cld          | Get |       |      | A_Tp          |               |            | 21109       |              | 20835       |                  | 95                |       |
| get_en_classification_by_cd    | Get |       |      | S_Tp          |               |            | 11          |              | 5           |                  | 55                |       |
| get_all_list_by_id             | Get |       |      | S_Classif     |               |            | 64          |              | 39          |                  | 64                |       |
| get_all_appl_user_by_id        | Get |       |      | A_List        |               |            | 945         |              | 945         |                  | 97                |       |
|                                |     |       |      | A_AppUser     |               |            | 19224       |              | 0           |                  | 0                 |       |

interesting ones:

| Proc Name                      | Action         | Memory Used (in KB) | Output Dynat   | Call Number | Cache Hit Number | Cache Hit Percent | Cache |
|--------------------------------|----------------|---------------------|----------------|-------------|------------------|-------------------|-------|
| Purge Record Number Max Number | Current Number |                     |                |             |                  |                   |       |
| get_all_instr_chrono_by_id_dim | Get            |                     | A_InstrChrono  | 105821      | 103010           | 97                |       |
| get_all_market_segment_by_id   | Get            |                     | A_MktSegt      | 665         | 0                | 0                 |       |
| sel_all_interest_cond_by_id_dt | Select         |                     | A_InterestCond | 74427       | 73182            | 98                |       |
| sel_all_income_event_by_id_dt  | Select         |                     | A_IncoEvt      | 213491      | 172211           | 54                |       |
| get_all_dict_lang_by_id        | Get            |                     | A_DictLang     | 128         | 29               | 22                |       |
| sel_all_filter_def_by_ent      | Select         |                     | A_ScriptDef    | 14179       | 8119             | 50                |       |
| sel_all_instr_chrono_By_dt_max | Select         |                     | A_InstrChrono  | 5290        | 1332             | 25                |       |

Create an opti\_profile and assign it to all fin servers for now.

At a later stage you may consider having different opti\_profile for online activity and for batch

```
set_all_income_event_by_id_dt shall be increased to 5000/500 5000/500
get_all_dict_lang_by_id shall be increset to 200/50 200/50
sel_all_instr_chrono_by_dt_max shall be increased to 5000/500 5000/500
get_all_instr_chrono_by_id_dim shall be increased to 5000/500 5000/500
get_all_market_segment_by_id shall be increased to 2000/200 2000/200
sel_all_interest_cond_by_id_dt shall be increased to 5000/500 5000/500
```

#### 6) most part of the processing seems to be on perf computation (benchmark)

hotspot seems to be :

Thread 3 (Thread 0x7fbef7fe700 (LWP 7681)):

```
#0 0x000000000000dbdbdd in DBA_FreeDynSt(DBA_DYNFLD*, short) ()
#1 0x0000000000a48480 in DBA_FreeDynStTab(DBA_DYNFLD**, int, short) ()
#2 0x0000000000da4767 in FIN_StockFlows(DATETIME, DATETIME, DATETIME, DBA_DYNFLD*, EVTDATERULE_ENUM, DBA_DYNFLD***, int*, DBA_HIER_HEAD*, int*) [clone .constprop.37] ()
#3 0x0000000000db1b46 in FIN_GenerateInstrFlows(DATETIME, DATETIME, DATETIME, unsigned char, long long, DBA_DYNFLD*, long long, EVTGEN_ENUM, EVTDATERULE_ENUM, unsigned char, GENINSTRFLOW_ENUM, ACCRRULE_ENUM, DBA_DYNFLD***, int*, DBA_HIER_HEAD*, DBA_DYNFLD*) ()
#4 0x0000000000d7d78c in FIN_PeriodIncEvtInstrFlow(DBA_DYNFLD*, long long, long long, FIN_EXCHARG_ST*, DATETIME, DATETIME, double, double*, unsigned char, DATETIME**, int*, DBA_HIER_HEAD*) ()
```

#### 5) most part of the processing seems to be on perf computation (benchmark)

hotspot seems to be :

Thread 3 (Thread 0x7fbef7fe700 (LWP 7681)):

```
#0 0x000000000000dbbbdd in DBA_FreeDynSt(DBA_DYNFLD*, short) ()
#1 0x0000000000a48480 in DBA_FreeDynStTab(DBA_DYNFLD**, int, short) ()
#2 0x0000000000da4767 in FIN_StockFlows(DATETIME, DATETIME, DATETIME, DBA_DYNFLD*, EVTDATERULE_ENUM, DBA_DYNFLD***, int*, DBA_HIER_HEAD*, int*) [clone .constprop.37] ()
#3 0x0000000000db1b46 in FIN_GenerateInstrFlows(DATETIME, DATETIME, DATETIME, unsigned char, long long, DBA_DYNFLD*, long long, EVTGEN_ENUM, EVTDATERULE_ENUM, unsigned char, GENINSTRFLOW_ENUM, ACCRRULE_ENUM, DBA_DYNFLD***, int*, DBA_HIER_HEAD*, DBA_DYNFLD*) ()
#4 0x0000000000d7d78c in FIN_PeriodIncEvtInstrFlow(DBA_DYNFLD*, long long, long long, FIN_EXCHARG_ST*, DATETIME, DATETIME, double, double*, unsigned char, DATETIME**, int*, DBA_HIER_HEAD*) ()
#5 0x0000000000d7e822 in FIN_InstrBenchReturnIncome(DBA_DYNFLD*, DATETIME, DATETIME, long long, RETURNTP_ENUM, double, long long, DBA_HIER_HEAD*, double*, unsigned char, DATETIME**, int*) [clone .constprop.10] ()
#6 0x0000000000db2f95 in FIN_InstrBenchReturnPeriod(DBA_DYNFLD*, DATETIME, DATETIME, long long, RETURNTP_ENUM, RETURNNAT_ENUM, double, double, unsigned char, long long, long long, FIN_RETURNPARAM_ST*, DBA_HIER_HEAD*, unsigned char) ()
#7 0x0000000000db2e2c7 in FIN_InstrBenchReturn(DBA_DYNFLD*, DATETIME, DATETIME, long long, RETURNTP_ENUM, RETURNNAT_ENUM, double, double, unsigned char, long long, long long, FIN_RETURNPARAM_ST*, DBA_HIER_HEAD*) ()
#8 0x00000000008d119 in FIN_BenchFillReturnOnStratSynth(DBA_DYNFLD*, DBA_HIER_HEAD*, BENCH_OBU_DATE_ST*, unsigned char*, DBA_DYNFLD**, int) ()
#9 0x0000000000be2b39 in FIN_ComputeOneStratCompo(DBA_DYNFLD*, DBA_HIER_HEAD*, BENCH_OBU_DATE_ST*, DBA_DYNFLD*, unsigned char*) ()
#10 0x00000000008e81b8 in FIN_BenchStorageOnStratBench(DBA_DYNFLD*, DBA_HIER_HEAD*, DBA_HIER_HEAD*, BENCH_OBU_DATE_ST*) ()
#11 0x00000000008ec806 in FIN_AnalysisBenchStorage(DBA_DYNFLD*, DBA_HIER_HEAD*) ()
#12 0x000000000007ddb08 in DBA_CallOnlineBenchStorage(DBA_DYNFLD*, DBA_HIER_HEAD*, unsigned char, unsigned char, unsigned char, DBA_DYNFLD**, int) [clone .constprop.45] ()
#13 0x000000000063d3b6 in FIN_ComputeNewDataForStrat(DBA_DYNFLD*, DBA_HIER_HEAD*, DBA_DYNFLD**, int) ()
#14 0x000000000007df4a4 in FIN_CompleteDataForAllRecords(DBA_DYNFLD*, DBA_HIER_HEAD*) ()
#15 0x00000000006b9863 in DBA_LoadPos2(DBA_DYNFLD*, DBA_HIER_HEAD**, DBA_DYNFLD**, int, DBA_DYNFLD**, int) ()
#16 0x000000000097524d in SERV_FinAnalysisLoadPosOrSynth(DBA_DYNFLD*, DBA_HIER_HEAD**, long long, DICT_FCT_ST*, LOAD_TP_ENUM*, RpcContext&) ()
#17 0x000000000099921c4 in SERV_FinAnalysisByld(DBA_DYNFLD*, DICT_FCT_ST*, DBA_HIER_HEAD*) ()
#18 0x0000000000993296 in SERV_RpcFinAnalysisByldCore(RpcContext*) ()
#19 0x0000000000cf8cc7 in ThreadImplLogical::exec() ()
```

Checked with FDV

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but we should have nature\_e = 12 (Model item)

and there is also a missing entry with nature\_e=15 (Model) corresponding to the summary (100%)

It looks like a migration issue or a transfer issue from reference environment

- To be checked with business analysis on the project + with migration team

to check the definition of MP in dbc:

```

select
 s.id, s.code, s.nature_e,
 se.value_n, se.nature_e as strategy_element_nature_e, se.strategy_history_id,
 i.id as instr_id, i.code as instr_code, i.nature_e as instr_nature_e, i.name as instr_name
from strategy s join strategy_history sh on sh.strategy_id=s.id and sh.end_d='31-12-9999 00:00:00'
 left outer join strategy_element se on se.strategy_history_id = sh.id
 left outer join instrument i on i.id=se.instr_id
where s.nature_e=2
and s.code in ('MP_5403781')

```

|        |            |   |     |   |        |        |         |   |                             |
|--------|------------|---|-----|---|--------|--------|---------|---|-----------------------------|
| 133360 | MP_5403781 | 2 | 2   | 1 | 344758 | 234942 | C000019 | 1 | CAE INC                     |
| 133360 | MP_5403781 | 2 | 3.5 | 1 | 344758 | 252417 | B084606 | 1 | BANK OF MONTREAL            |
| 133360 | MP_5403781 | 2 | 3   | 1 | 344758 | 257058 | N052356 | 1 | NATIONAL BANK OF CANADA     |
| 133360 | MP_5403781 | 2 | 2.5 | 1 | 344758 | 260100 | F039527 | 1 | FAIRFAX FINANCIAL HOLDINGS  |
| 133360 | MP_5403781 | 2 | 7.6 | 1 | 344758 | 268609 | R648865 | 1 | ROYAL BANK OF CANADA        |
| 133360 | MP_5403781 | 2 | 4.5 | 1 | 344758 | 328624 | B009984 | 1 | BROOKFIELD ASSET MANAGEMENT |
| 133360 | MP_5403781 | 2 | 2.5 | 1 | 344758 | 336436 | T031762 | 1 | TC ENERGY CORP              |
| 133360 | MP_5403781 | 2 | 5.8 | 1 | 344758 | 525282 | B086409 | 1 | BANK OF NOVA SCOTIA         |
| 133360 | MP_5403781 | 2 | 3.7 | 1 | 344758 | 536027 | T443951 | 1 | TORONTO INDUSTRIES LTD      |
| 133360 | MP_5403781 | 2 | 2.2 | 1 | 344758 | 569394 | H045208 | 1 | HYDRO ONE LTD               |
| 133360 | MP_5403781 | 2 | 2.8 | 1 | 344758 | 597773 | S101355 | 1 | STANTEC INC                 |
| 133360 | MP_5403781 | 2 | 5.5 | 1 | 344758 | 838864 | C000606 | 1 | CANADIAN NATIONAL RAILWAY   |
| 133360 | MP_5403781 | 2 | 2.1 | 1 | 344758 | 968742 | P114832 | 1 | PREMIUM BRANDS HOLDINGS     |
| 133360 | MP_5403781 | 2 | 3.3 | 1 | 344758 | 973412 | S100803 | 1 | SAPUTO INC                  |

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Also review if the bank is going to use +query on position or not .

Adapt the list of formats to compute accordingly

At then we may have something like this (just an example)

| Precomp job      | Entity                    | Precomp element     | Screen                     | Format                     | Function                   |                      |
|------------------|---------------------------|---------------------|----------------------------|----------------------------|----------------------------|----------------------|
| RBC_FULL_PTF_EXT | custo extension portfolio | Portfolio           | PCK_PREC_CASH_MVT          | PCK_PREC_DOMAIN_CASH_MVT   | PCK_PREC_CASH_MVT          | Operation History    |
|                  |                           | PCK_PREC_CHECKSTRAT | RBC_PREC_DOMAIN_CHECKSTRAT | PCK_PREC_CHECKSTRAT        | RBC_PREC_DOMAIN_CHECKSTRAT | Check Strategy       |
|                  |                           |                     | I                          | RBC_PREC_DOMAIN_CHECKSTRAT | PCK_PREC_CONST_COMP        | Check Strategy       |
|                  |                           |                     |                            | RBC_PREC_DOMAIN_CHECKSTRAT | RBC_PREC_CHECKSTRAT        | Check Strategy       |
|                  |                           |                     |                            | RBC_PREC_DOMAIN_CHECKSTRAT | PCK_PREC_OBJ_COMP          | Check Strategy       |
|                  |                           | PCK_PREC_PERF       | RBC_PREC_DOMAIN_PERF       | PCK_PREC_PERF              | RBC_PREC_PERF              | Performance Analysis |
|                  |                           |                     | RBC_PREC_DOMAIN_PERF       | RBC_PREC_PERF2             | RBC_PREC_PERF2             | Performance Analysis |
|                  |                           | PCK_PREC_PTF_EXP    | -                          | PCK_PREC_PTF_EXP           | PCK_PREC_PTF_EXP           | Administration       |
|                  |                           |                     | -                          | RBC_PREC_PTF_EXP           | RBC_PREC_PTF_EXP           | Administration       |
|                  |                           | PCK_PREC_VALO       | RBC_PREC_DOMAIN_VALO       | PCK_PREC_VALO              | RBC_PREC_VALO              | Valuation            |
|                  |                           |                     | RBC_PREC_DOMAIN_VALO       | RBC_PREC_VALO              | RBC_PREC_VALO              | Valuation            |
|                  |                           |                     | RBC_PREC_DOMAIN_VALO       | PCK_PREC_VALO_AGGR         | PCK_PREC_VALO_AGGR         | Valuation            |
|                  |                           |                     | RBC_PREC_DOMAIN_VALO       | PCK_PREC_VALO_DET          | PCK_PREC_VALO_DET          | Valuation            |
|                  |                           | PCK_PREC_PTF_SQL    |                            | PCK_PREC_PTF_SQL           | PCK_PREC_PTF_SQL           | Administration       |
|                  |                           |                     |                            | PCK_PREC_PTF_SQL2          | PCK_PREC_PTF_SQL2          | Administration       |
|                  |                           |                     |                            | PCK_PREC_PTF_SQL3          | PCK_PREC_PTF_SQL3          | Administration       |
|                  |                           |                     |                            | PCK_PREC_PTF_SQL4          | PCK_PREC_PTF_SQL4          | Administration       |
|                  |                           |                     |                            | PCK_PREC_PTF_SQL5          | PCK_PREC_PTF_SQL5          | Administration       |

The ones highlighted in yellow may be removed if "query on position" is not used

Note: possibly RBC format may formally extend the standard one (using reference) and therefore the standard may be removed from the precomp job definition.

See FrontOffice\_Format\_UDS\_ReferenceGuide.pdf

"chapter 11 Format and User Defined Screen definitions using reference"

#### 8) computing again and again benchmark on the 1 Year period

-> use storage feature of TAP

```
2021/11/26 03:49:14.676998:AAASERVFIN :tasc :pid#5996-tid#6161(cli) : Benchmark Storage / strategy MP_5403781 / PSP -5000011 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:07:13.705053:AAASERVFUS :tasc :pid#6285-tid#7680(cli) : Benchmark Storage / strategy MP_5403781 / PSP -3000006 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:14:00.874631:AAASERVFIN :tasc :pid#5996-tid#7673(cli) : Benchmark Storage / strategy MP_5403781 / PSP -2000002 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:56:00.708909:AAASERVFUS :tasc :pid#6285-tid#7680(cli) : Benchmark Storage / strategy MP_5403781 / PSP -3000006 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
```

...

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```
2021/11/26 03:49:14.676998:AAASERVFIN :tasc :pid#5996-tid#6161(cli) : Benchmark Storage / strategy MP_5403781 / PSP -5000011 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:07:13.705053:AAASERVFUS :tasc :pid#6285-tid#7680(cli) : Benchmark Storage / strategy MP_5403781 / PSP -3000006 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:14:00.874631:AAASERVFIN :tasc :pid#5996-tid#7673(cli) : Benchmark Storage / strategy MP_5403781 / PSP -2000002 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:56:00.708909:AAASERVFUS :tasc :pid#6285-tid#7680(cli) : Benchmark Storage / strategy MP_5403781 / PSP -3000006 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
```

we may first understand why the computation is so slow (see point 6) a above) but anyhow, storage is a good practice.

#### 8) computing again and again benchmark on the 1 Year period

-> use storage feature of TAP

```
2021/11/26 03:49:14.676998:AAASERVFIN :tasc :pid#5996-tid#6161(cli) : Benchmark Storage / strategy MP_5403781 / PSP -5000011 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:07:13.705053:AAASERVFUS :tasc :pid#6285-tid#7680(cli) : Benchmark Storage / strategy MP_5403781 / PSP -3000006 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:14:00.874631:AAASERVFIN :tasc :pid#5996-tid#7673(cli) : Benchmark Storage / strategy MP_5403781 / PSP -2000002 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
2021/11/26 04:56:00.708909:AAASERVFUS :tasc :pid#6285-tid#7680(cli) : Benchmark Storage / strategy MP_5403781 / PSP -3000006 / Month / no grid / CAD / no position data / Standard Perf Attrb / 2020/11/30 - 2021/11/26
```

we may first understand why the computation is so slow (see point 6) a above) but anyhow, storage is a good practice.

<http://rd.temenosgroup.com/browse/ENV-15287> -

Please configure ocs with server and ocs online-activity queue to Pool in v\_reg\_ora\_1

From <<http://rd.temenosgroup.com/browse/ENV-15287>>

:> fin-srv-ds list

Connecting to server, this may take some time...

Default financial servers:

| ----- | -----    | ----- |
|-------|----------|-------|
| Name  | Hostname | Port  |
|       |          |       |

No additional financial servers.

:> fin-srv-pool

Available FinServers: finServer1

| Pool ID   | Default Server | Servers    | Queues                                                                                                         | Quarantine | ----- |
|-----------|----------------|------------|----------------------------------------------------------------------------------------------------------------|------------|-------|
| (Default) | finServer1     | finServer1 | job-large, job-small, env-reporting, tsl-precomp-entity, job-medium, tsl-precomp-global-cache, online-activity | 0          |       |

|   |  |  |  |    |
|---|--|--|--|----|
| 1 |  |  |  | 30 |
| 2 |  |  |  | 30 |
| 3 |  |  |  | 30 |
| 4 |  |  |  | 30 |

Command syntax:

fin-srv-pool : List actual financial pools.  
 fin-srv-pool add-server [poolid] [finserver name] : Add a financial server to a pool.  
 fin-srv-pool remove-server [poolid] [finserver name] : Remove a financial server from a pool.  
 fin-srv-pool assign-queue [poolid] [queue name] : Add a queue to a pool.  
 fin-srv-pool unassign-queue [queue name] : Remove a queue from a pool.  
 fin-srv-pool reset [poolid] : Reset a pool (remove servers and queues).  
 fin-srv-pool edit-quarantine-period [poolid] [Number in Second] : Set the quarantine period for a financial server in error.  
 fin-srv-pool edit-default-server [poolid] [default server] : Sets the default server.

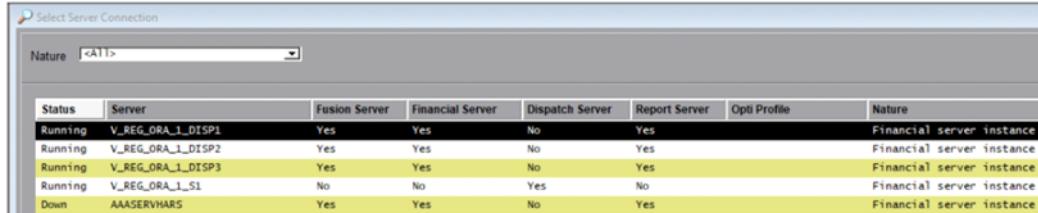
## FIN Server creation and OCS integration with the same, along with configuration of online-activity queue

- 1) Checked availability of the new ports (49014, 49015, 49016)
- 2) Added servers in Serve Connection (Administration--->Security--->Server Connection)

| Server            | Fusion Server | Financial Server | Dispatch Server | Report Server | Nature                    | Port  |
|-------------------|---------------|------------------|-----------------|---------------|---------------------------|-------|
| V_REG_ORA_1_DISP1 | Yes           | Yes              | No              | Yes           | Financial Server Instance | 49014 |
| V_REG_ORA_1_DISP2 | Yes           | Yes              | No              | Yes           | Financial Server Instance | 49015 |
| V_REG_ORA_1_DISP3 | Yes           | Yes              | No              | Yes           | Financial Server Instance | 49016 |

In addition, edited the original financial server with below:

|                  |    |    |     |    |                           |      |
|------------------|----|----|-----|----|---------------------------|------|
| V_REG_ORA_1_DISP | No | No | Yes | No | Financial Server Instance | 8010 |
|------------------|----|----|-----|----|---------------------------|------|



- 3) Add the entries of new servers under "TRIPLE\_A\_SERVER\_NAME\_SECTION" in aaa\_install.cfg

```

TRIPLE_A_SERVER_NAME_SECTION
Each line must begin with a "#P" identifier.
Additional lines may be added for the FINANCIAL_SERVER only.
Only the Server_Name of the SQL_SERVER and BACKUP_SERVER lines may be modified.
The Max_Connect, Port_No and Database parameters for the SQL_SERVER and BACKUP_SERVER lines are
defined in the SERVER_PARAM_SECTION and Database installations, and is UNDEFINED here.
For other lines, only the Server_Name, Database_Name and Max_Connect, Max_Fusion, Hostname, Port_No may be modified.
#
SERVER_Name Max_Connect Max_Portno Hostname Port_No Database_definition
#
S V_REG_ORA_1_S1 50 10 laulxval.temenosgroup.com 8010 <AAAMAIN_DB>
S V_REG_ORA_1_DISP1 50 10 laulxval.temenosgroup.com 49014 <AAAMAIN_DB>
S V_REG_ORA_1_DISP2 50 10 laulxval.temenosgroup.com 49015 <AAAMAIN_DB>
S V_REG_ORA_1_DISP3 50 10 laulxval.temenosgroup.com 49016 <AAAMAIN_DB>

```

- 4) Add and edit the entries of existing and new servers under "TRIPLE\_A\_SERVER\_FUNCTION\_SECTION" in aaa\_install.cfg

```

TRIPLE_A_SERVER_FUNCTION_LISTENERS
#
Each line must begin with a '#'.
Additional lines may be added for the FINANCIAL_SERVERS only.
Only the Server_Name lines may be modified.
#
Server_Name Server_Functions
#
F S_16K_16PL02_LXVAL_UNI <SQL_SERVER>
F S_16K_16PL02_LXVAL_UNI_BS <BACKUP_SERVER>
V_REG_ORA_1_S1 <DISPATCH_SERVER>
V_REG_ORA_1_S2 <FINANCIAL_SERVER>
F V_REG_ORA_1_S1 <DISPATCH_SERVER>
V_REG_ORA_1_S2 <REPORT_SERVER>
F V_REG_ORA_1_DISP1 <FUSION_SERVER>
F V_REG_ORA_1_DISP1 <FINANCIAL_SERVER>
F V_REG_ORA_1_DISP2 <FUSION_SERVER>
F V_REG_ORA_1_DISP2 <FINANCIAL_SERVER>
F V_REG_ORA_1_DISP3 <FUSION_SERVER>
F V_REG_ORA_1_DISP3 <FINANCIAL_SERVER>
F V_REG_ORA_1_DISP3 <REPORT_SERVER>

```

- 5) Update aaa\_srv.ini with the new server and port details.

```

[V_REG_ORA_1_DISP1]
listener.host=laulxval.temenosgroup.com
listener.port=49014

[V_REG_ORA_1_DISP2]
listener.host=laulxval.temenosgroup.com
listener.port=49015

[V_REG_ORA_1_DISP3]
listener.host=laulxval.temenosgroup.com
listener.port=49016

```

- 6) Run ./update\_opensrv\_lis.sh

- 7) Restart the Fin servers

```

26_05_2020 15:11:31 Triple'A fin server V_REG_ORA_1_DISP1 status : ACTIVATED
26_05_2020 15:11:31 Triple'A fin server V_REG_ORA_1_DISP2 status : ACTIVATED
26_05_2020 15:11:32 Triple'A fin server V_REG_ORA_1_DISP3 status : ACTIVATED
26_05_2020 15:11:32 Triple'A fin server V_REG_ORA_1_S1 status : ACTIVATED

```

- 8) Run otf\_shell.sh from \$OCS\_HOME/admin

- 9) Run the below commands to add the 3 additional fin servers

```
fin-srv-ds add V_REG_ORA_1_DISP1 laulxval.temenosgroup.com 49014
```

```
fin-srv-ds add V_REG_ORA_1_DISP2 laulxval.temenosgroup.com 49015
```

```
fin-srv-ds add V_REG_ORA_1_DISP3 laulxval.temenosgroup.com 49016
```

→ Check it by using below command:

```
fin-srv-ds list
```

```
:> fin-srv-ds list
Default financial servers:

| Name | Hostname | Port |
| finServer1 | laulxval.temenosgroup.com | 8010 |

Additional financial servers:

Name	Hostname	Port
V_REG_ORA_1_DISP1	laulxval.temenosgroup.com	49014
V_REG_ORA_1_DISP2	laulxval.temenosgroup.com	49015
V_REG_ORA_1_DISP3	laulxval.temenosgroup.com	49016
```

→ Add the newly created financial servers to pool “1” by using below commands :-

```
fin-srv-pool add-server 1 V_REG_ORA_1_DISP1
```

```
fin-srv-pool add-server 1 V_REG_ORA_1_DISP2
```

```
fin-srv-pool add-server 1 V_REG_ORA_1_DISP3
```

→ Check the pool by using below command :-

```
fin-srv-pool
```

```
:> fin-srv-pool
Available FinServers: V_REG_ORA_1_DISP1, V_REG_ORA_1_DISP2, finServer1, V_REG_ORA_1_DISP3

Pool ID	Default Server	Servers	Quarantine
		V_REG_ORA_1_DISP1, V_REG_ORA_1_DISP2, V_REG_ORA_1_DISP3	
		30	

| (Default) | finServer1 | finServer1 | comp-global-cache, job-large | 0 |
```

10) Assign online-activity queue to Pool 1 by using command

```
fin-srv-pool assign-queue 1 online-activity
```

```
Available FinServers: V_REG_ORA_1_DISP1, V_REG_ORA_1_DISP2, finServer1, V_REG_ORA_1_DISP3

| Pool ID | Default Server | Servers | Quarantine | | Queues
-----| | | V_REG_ORA_1_DISP1, V_REG_ORA_1_DISP2, V_REG_ORA_1_DISP3 | | env-reporting, job-medium, job-small, ts1-precomp-entity, ts1-prm
| (Default) | finServer1 | finServer1 | comp-global-cache, job-large | 0 | |
-----| | | 30 | | online-activity
```

11) Check for the new server entries reflected in existing “all-in-one.properties” (\$OCS\_HOME/webDomain/properties) under “FinServers : Triple'A Plus Financial Servers definition”

```
#####
FinServers : Triple'A Plus Financial Servers definition
#
additional.FS.name.1 = V_REG_ORA_1_DISP1
additional.FS.host.1 = laulxval.temenosgroup.com
additional.FS.port.1 = 49014
additional.FS.name.2 = V_REG_ORA_1_DISP2
additional.FS.host.2 = laulxval.temenosgroup.com
additional.FS.port.2 = 49015
additional.FS.name.3 = V_REG_ORA_1_DISP3
additional.FS.host.3 = laulxval.temenosgroup.com
additional.FS.port.3 = 49016
tslFinServer.defaultPool = tslFinServer.pool.1
tslFinServer.pool.1.servers = V_REG_ORA_1_DISP1, V_REG_ORA_1_DISP2, V_REG_ORA_1_DISP3
tslFinServer.pool.1.defaultServer = V_REG_ORA_1_DISP1
tslFinServer.pool.1.datasource.lookup = jndi
```

12) Restart OCS services

13) Check for data flow inside “server.log file”

```
2020/05/26 15:30:00.209794[V_REG_ORA_1_DISP1:v_req_ora_ltascipid#6355-tid#6509(cli) : Start RPC Get Entity on : notif_instance
2020/05/26 15:30:00.211018[V_REG_ORA_1_DISP1:v_req_ora_ltascipid#6355-tid#6509(cli) : Exit RPC Get Entity: 1 record returned
2020/05/26 15:30:00.220167[V_REG_ORA_1_DISP2:v_req_ora_ltascipid#3017-tid#3382(cli) : Start RPC Eval Entity : cmd = 6, entity : notif_recipient.
2020/05/26 15:30:00.227185[V_REG_ORA_1_DISP2:v_req_ora_ltascipid#3017-tid#3382(cli) : Exit RPC Eval Entity.
2020/05/26 15:30:00.237403[V_REG_ORA_1_DISP3:v_req_ora_ltascipid#3466-tid#3727(cli) : Start RPC Eval Entity : cmd = 16, entity : alert_def.
2020/05/26 15:30:00.261102[V_REG_ORA_1_DISP3:v_req_ora_ltascipid#3466-tid#3727(cli) : Exit RPC Eval Entity.
```

# Debugging third party exe and DLL in visual studio

Thursday, December 9, 2021 12:26 PM

<https://docs.microsoft.com/en-us/visualstudio/debugger/how-to-debug-from-a-dll-project?view=vs-2022>

<https://docs.microsoft.com/en-us/visualstudio/debugger/how-to-debug-an-executable-not-part-of-a-visual-studio-solution?view=vs-2022>

# Compiler & Linker - Static & Global in Windows

Thursday, April 30, 2020 9:20 AM

VC++ Managing static and global variables

<https://stackoverflow.com/questions/19373061/what-happens-to-global-and-static-variables-in-a-shared-library-when-it-is-dynam>

# Wiki & Jira

Thursday, April 30, 2020 9:20 AM

<http://wiki.temenosgroup.com/display/RDSPI/Index>

Monday, June 3, 2019

11:39 AM

<http://wiki.temenosgroup.com/display/DEVWIKI/Index>

<http://wiki.temenosgroup.com/display/ds/Index>

<http://wiki.temenosgroup.com/display/DELIV/Index>

<http://wiki.temenosgroup.com/display/OPEN/Index>

<http://wiki.temenosgroup.com/display/RDSPI/Index>

<http://wiki.temenosgroup.com/display/PMKB/Index>

<http://wiki.temenosgroup.com/display/CLIENT/Index>

<http://wiki.temenosgroup.com/display/DEVWIKI/Triple%27A+SQL+code+language+%28DDL+generator%29>

<http://wiki.temenosgroup.com/display/DEVWIKI/Triple%27A+Plus+Core+Dev>

## Old Wiki Page

<http://wikiorg.temenosgroup.com/dashboard.action>

## Training slides:

1. <https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Training>
2. <https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core>
3. <https://lausvn.temenosgroup.com/svn/devel/documentation>

=====  
To get all the labels listed in the wiki, use the keyword  
search "all labels"

Dashboard > Labels > active

Browse Log In Search

## TEMENOS Label: active

View: Popular Labels | All Labels

All content with label active.

Related Labels: wscorex1706-docm, wscorexaug1711-docm, cm, wscorel-docux, wmidew, wmidcommon, wmidcommon-usl, wscorexsep1711-docm, wmidtech-doc, release-note-process, wmidtest-faq, wmpm-topic, wscorel-doom, wscorel-doc, wsrc, build, wmidcommon-tech, wmidtest, wmidcommon-dev, more ...

1 2 3 4 5 6 7 ... 20 Next >

---

Agile Approach and Standards (R&D Products & Components)  
Inception Project Initiation| Whole team to be in one location Educate team around agile methodology provide training i.e. Whole team, including QA to be involved in Sprint planning Duration ...  
Other labels: wmidtest-guide

AIMSInfo (R&D Products & Components)  
Topics Overview presentation Presentation WMAMSSST.pptx Vacation Reporting notes: Canada Employee vacation report notes Reporting Vacation Days in Canada msg Approval process Approval Process and Workflow WMAMSSWorkflow.pdf Please use ...  
Other labels: wmidcommon

Build & Deployment tasks duration estimate (R&D Products & Components)  
cloak.toggle.type = default deck.tab.active.border = 1px solid #0000 deck.tab.inactive.border = 1px solid #0000 deck.tab.active.background = #0f0f0 deck.tab.inactive.background = # ...  
Other labels: wmcmsd-doc

Build automation steps (R&D Products & Components)  
Trigger CM build from Core trunk at 8pm (EST), sample of build number r161wm16.7.0.20160516 . Send mail to distribution group if compile error occurs. Dev lead will review logs and ...  
Other labels: wmcmsd-auto

Client projects migration steps (R&D Products & Components)  
MergeProcess1.jpg border=1 IMergeProcessFlow.jpg border  
Other labels: wmiddev-guide

Core 16.11 development workspace setup (R&D Products & Components)  
xWeb Development Environment Setup Guide Eclipse 4.5.docx  
Other labels: wmiddev-training

Core and Custom Code merge (R&D Products & Components)  
New approach to have Core Assess/Defect to be managed better in Client project. Improve core merge on custom code with Core new release in a client project. Presentation at ...  
Other labels: wmidcommon-dev, wmidcommon-tech

Core Development Guideline (R&D Products & Components)  
SVN Link to Core Development Guideline <https://it0rsvn02.temenosgroup.com/svn/wm/projects/doc/active/wealthmanager/> Development Guideline  
Other labels: wmiddev-guide

Core published documents from latest release (R&D Products & Components)  
Every WM Core release publish documents, it is good practice to review General Reference documents Temenos internal documentation site <http://gva2flare.temenosgroup.com/doc/> Standard client external Support Site ...  
Other labels: wmiddev-training

CurrentHotfixRequests (R&D Product & Release Management)  
Documentation Template folder : <https://lausvn.temenosgroup.com/svn/devel/projects/templates/live%20version/version%201.0/hotfixes/> Email templates : <https://lausvn.temenosgroup.com/svn/devel/projects/doc/active/tripleplus/hotfixes/Email%20Examples...>  
Other labels: active\_release, wealthsuite

1 2 3 4 5 6 7 ... 20 Next >

Dashboard > Labels > new\_feature

Browse Log In Search

## TEMENOS Label: new\_feature

View: Popular Labels | All Labels

All content with label new\_feature.

Related Labels: ics\_ocs\_\_odyssey\_components\_suite\_, dmmom, ofsmk, tools\_2008\_05, ics\_crm\_\_client\_data\_management, prod\_val\_tools, fmkt, tools\_1\_05, 4\_eyes\_validation\_workflow, null, ocs\_1\_30\_6, wmgwpack\_trunk\_1\_00\_0..., account\_opening\_workflow\_, tools\_2007\_07, tools\_1\_00, cm\_\_subversion, cdm\_1\_10\_9b071221, pss, current\_iteration, more ...

1 2 3 4 Next >

---

add-label - Test page (R&D Productivity Tools)  
addlabel chooseLabel checkboxes checklistinput checklistinput yes no checklistlabel  
Other labels: jira\_rd\_tool\_jira-basics, reqm\_\_jira\_extensions, tool\_category, not\_in\_iteration\_plan, faq\_jira\_projectmgmt, tools, prod\_val\_tools

CRMCDM-3559 - Test - Please ignore (R&D Products & Components)  
Useful Info JIRA issues CRMCDM3559@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here. blabla doekwpd peowkfewp dpwkwp posdkwepd  
Other labels: cdm\_2\_00\_0, not\_in\_iteration\_plan, 4\_eyes\_validation\_workflow, crmcdm, ocs\_1\_40

CRMCDM-3614 - Adding and Managing External Contacts in CDM (R&D Products & Components)  
Useful Info JIRA issues CRMCDM3614@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here. An external contact is a person which is related to the ...  
Other labels: cdm\_1\_40\_0, crmcdm, ocs\_1\_40

CRMCDM-3827 - TEST - Please ignore (R&D Products & Components)  
Useful Info JIRA issues CRMCDM3827@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here.  
Other labels: cdm\_2\_10\_0\_client\_data\_histORIZATION, crmcdm, ocs\_2\_10

CRMCDM-3865 - TEST - Please ignore (R&D Products & Components)  
Useful Info JIRA issues CRMCDM3865@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here. kpokrpork pqwoekwepoqrk pdokepwk dedpkwp pdokwpw  
Other labels: cdm\_2\_10\_0\_account\_viewing\_workflow, crmcdm, ocs\_2\_10\_2

DMMD-1184 - \_Performance Optimization - IMDIxml (R&D Products & Components)  
Useful Link <http://wiki.oams.com/display/DEVWIKI/IMDIIMDI2XMLOptimImpacts> Useful Info JIRA issues DMMD1184@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here. (IMDI ...  
Other labels: current\_its\_iteration, imdi\_4\_2\_1\_0, imdi, dmmd

DMMOM-1416 - \_Financial Instruments (R&D Products & Components)  
Useful Info JIRA issues DMMOM1416@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here. Develop the FI part  
Other labels: wmgwpack\_trunk\_1\_00\_0, wmgwpack\_mapping, dmmom

FMKTF-488 - Cluster support (R&D Products & Components)  
Useful Info JIRA issues FMKTF488@jira Last Viewed Unviewed View Count Unviewed Attachments 20 March 2007 clustering meeting Present : SSE, CVE, DNM, EBE, AMR Distribution : Idem FBI, FME, GDU, SGM In the ...  
Other labels: oft\_1\_31\_0, fmkt, ocs\_1\_31

OCS-10940 - \_Model search functionality in the workbench (R&D Products & Components)  
Useful Info JIRA issues OCS10940@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section JIRA Issue Description The enduser should be able to search through models (rules, pages, pagewflows ...  
Other labels: ocs\_1\_30\_5, current\_amr\_iteration, ofsmk

OCS-23150 - \_IPA - Ability (in the order session) to perform stock picking or to select an alternative to a generated buy order (Rebalancing) in visualising the content of a recommendation list (linked to the same segment) (R&D Products & Components)  
Useful Info JIRA issues OCS23150@jira Last Viewed Unviewed View Count Unviewed Attachments Main Section Add your data here. It must be possible to either : capture orders based on a ...  
Other labels: ocs\_1\_30\_5, crmipa, null

## Oracle - Temporary Tables

25 July 2022 21:04

- If the TRUNCATE statement is issued against a temporary table, only the session specific data is truncated. There is no affect on the data of other sessions.
- Data in temporary tables is stored in temp segments in the temp tablespace.
- Data in temporary tables is automatically deleted at the end of the database session, even if it ends abnormally.
- Indexes can be created on temporary tables. The content of the index and the scope of the index is the same as the database session.
- Views can be created against temporary tables and combinations of temporary and permanent tables.
- Temporary tables can have triggers associated with them.
- Export and Import utilities can be used to transfer the table definitions, but no data rows are processed.
- Statistics on temporary tables are common to all sessions. Oracle 12c allows session specific statistics.
- There are a number of restrictions related to temporary tables but these are version specific.

<https://oracle-base.com/articles/misc/temporary-tables>

## Fusion Changes & Dispatcher

Thursday, April 30, 2020 9:20 AM

<http://rd.temenosgroup.com/browse/PMSTA-22690> - Financial server C code re-factorization regarding open server adherence (Part 2)

Saturday, June 8, 2019

11:54 AM

<http://rd.temenosgroup.com/browse/PMSTA-20087>

The server is always preemptive; so remove the capability to disable it and its companion \_REENTRANT

From <<http://rd.temenosgroup.com/browse/PMSTA-20087>>

<http://rd.temenosgroup.com/browse/PMSTA-20090>

Wrong Thread local usage due to missed parameter passing in layer of procedures

From <<http://rd.temenosgroup.com/browse/PMSTA-20090>>

<http://rd.temenosgroup.com/browse/PMSTA-27328>

Sybase: Bad implementation of SYS\_GetThreadClientConnectIODead

From <<http://rd.temenosgroup.com/browse/PMSTA-27328>>

<http://rd.temenosgroup.com/browse/PMSTA-20305>

Move in interop library system functionalities (memory allocation, thread management, lock ...)

<http://rd.temenosgroup.com/browse/PMSTA-26427>

Dispatcher does not provide the same workload to each fusion server.

RPCs to check the dispatcher activities

aaa sql -Uaaa -O0 -h0 -w999 -S<dispatch\_server\_name>

```
#EXEC disp_load
go
#EXEC get_dispatcher_activity
go
```

# Fusion importation run asynchronously

03 October 2023 15:51

## REF-4034 - AAAIMPORT\_NOTFUSIONSYNCH

OCE : modification of operation table synchronised for : fusion, importation & direct update status.

New RPC start\_export and end\_export created for this purpose.

Only one treatment can running at the same time.

The exportation in the batch mode is synchronised as soon as it references a operation entity in the command line and the SET UPDATESTATUS settings has been provided. Even if no operation with a status less than ACCOUNTED is selected, the treatment is synchronised.

In the On-line mode, using the AAA\_OliUpdateOperationStatus function, the update is synchronised as well, for the all set of operation, passed as parameters.

The synchronisation can be deactivated in the same way than for the importation, by setting the environment variable AAAIMPORT\_NOTFUSIONSYNCH in the aaaprofile.

## PMSTA-18802

### NOFUSIONSYNCH

./aaa imp -B2 -Uv\_gen\_caaa -Pv\_gen\_caaav\_gen\_caaa v\_gen\_caaamaindb <19048.imp

From <<http://rd.temenosgroup.com/browse/PMSTA-18802>>

```
SET SEPARATOR ;
SET DECIMAL .
SET THOUSAND ,
SET DATAFORMAT DELIMITED
SET DATEFORMAT DD-MM-YYYY
CMD INSUPD instrument
ATT code
DAT ABB
CMD INSUPD portfolio
ATT code
DAT DED_PTF
SET NOFUSIONSYNCH ON
CMD INSUPD buy_operation
ATT portfolio code instr quantity_n status_e
DAT DED_PTF;AAADED_PTF00001;ABB;9000;70
DAT DED_PTF;AAADED_PTF00002;ABB;9000;70
DAT DED_PTF;AAADED_PTF00003;ABB;9000;70
DAT DED_PTF;AAADED_PTF00004;ABB;9000;70
DAT DED_PTF;AAADED_PTF00005;ABB;9000;70
SET NOFUSIONSYNCH ON
CMD INSUPD buy_operation
ATT portfolio code instr quantity_n status_e
DAT DED_PTF;AAADED_PTF00006;ABB;9000;90
DAT DED_PTF;AAADED_PTF00007;ABB;9000;90
DAT DED_PTF;AAADED_PTF00008;ABB;9000;90
DAT DED_PTF;AAADED_PTF00009;ABB;9000;90
DAT DED_PTF;AAADED_PTF00010;ABB;9000;90
CMD INSUPD instrument
ATT code nature_e
DAT DED_INSTR;1
REM SET NOFUSIONSYNCH ON
REM CMD DELETE buy_operation
REM ATT portfolio code instr quantity_n status_e
REM DAT DED_PTF;AAADED_PTF00004;ABB;9000;70
REM DAT DED_PTF;AAADED_PTF00005;ABB;9000;70
REM DAT DED_PTF;AAADED_PTF00006;ABB;9000;70
```

From <<http://rd.temenosgroup.com/browse/PMSTA-18802>>

```
SET SEPARATOR ;
SET DECIMAL .
SET THOUSAND ,
SET DATAFORMAT DELIMITED
SET DATEFORMAT DD-MM-YYYY
CMD INSUPD instrument
ATT code
DAT ABB
CMD INSUPD portfolio
ATT code
DAT DED_PTF
SET NOFUSIONSYNCH ON
CMD INSUPD buy_operation
ATT portfolio code instr quantity_n status_e
DAT DED_PTF;AAADED_PTF00001;ABB;9000;70
DAT DED_PTF;AAADED_PTF00002;ABB;9000;70
DAT DED_PTF;AAADED_PTF00003;ABB;9000;70
DAT DED_PTF;AAADED_PTF00004;ABB;9000;70
DAT DED_PTF;AAADED_PTF00005;ABB;9000;70
SET NOFUSIONSYNCH ON
CMD INSUPD buy_operation
ATT portfolio code instr quantity_n status_e
DAT DED_PTF;AAADED_PTF00006;ABB;9000;90
```

```
DAT DED_PTF;AAADED_PTF00007;ABB;9000;90
DAT DED_PTF;AAADED_PTF00008;ABB;9000;90
DAT DED_PTF;AAADED_PTF00009;ABB;9000;90
DAT DED_PTF;AAADED_PTF00010;ABB;9000;90
CMD INSUPD instrument
ATT code nature_e
DAT DED_INSTR;1
REM SET NOFUSIONSYNCH ON
REM CMD DELETE buy_operation
REM ATT portfolio code instr quantity_n status_e
REM DAT DED_PTF;AAADED_PTF00004;ABB;9000;70
REM DAT DED_PTF;AAADED_PTF00005;ABB;9000;70
REM DAT DED_PTF;AAADED_PTF00006;ABB;9000;70
```

# DDLgen Commands & Meta dict check & options

Thursday, April 30, 2020 9:21 AM

## DDLGen Commands

1. create folder install in triplea\_core/install
2. ftp aaa\_install.cfg from the environment to triplea\_core/install folder
3. set the AAADDLPATH=w:/TA/25.4.06/triplea\_dll & RUN\_AAA\_INSTALL=19 in AACFGPATH
4. <https://confluence.temenos.com/pages/viewpage.action?pageId=40125772>
5. <https://confluence.temenos.com/display/DEVWIKI/Create+new+Meta-Dictionary+attribute>
6. <https://confluence.temenos.com/pages/viewpage.action?pageId=40125821> - All the keywords

AAA\_INSTALL\_CFG by default set to \$AAAHOME/install/aaa\_install.cfg

=====

For generator debugging either visual studio or gdb, follow the below steps:

1. export DEBUG\_DDLGEN=2, export RUN\_AAA\_INSTALL=9
    - a. Ddlgen -U<user> -P<pwd> -Gp -Xf
  2. For dat dict,  
export DEBUG\_DDLGEN=2, export RUN\_AAA\_INSTALL=9
1. To generate the stored procedure in windows;  
-CV\_SCB\_ORA5 -Uv\_scb\_ora5aaa -Pv\_scb\_ora5aaav\_scb\_ora5aaa -G p -o extended\_pos -X f

To run the debugging of ddldgen for system tables.

```
export RUN_AAA_INSTALL=5
export DEBUG_DDLGEN=esys
```

/oams/int\_e2e\_upg\_1/aaa/current/aaa DDLGEN -Uaaa -Paaaaaaaa -Gda -Xo

=====

To debug ddldgen in visual studio for {dat dict} failing, use the below method:

```
export RUN_AAA_INSTALL=5
aaa_ddlgen -C<Conf> -Uaaa -Paaaaaaaa -Gda -Xo
```

=====

System table import please follow the below instructions:

```
export RUN_AAA_INSTALL=9
$ID p xd $SUF
unset RUN_AAA_INSTALL
$TA_TOOLS_DIR/build_dbi.sh dict_attribute all
$TA_TOOLS_DIR/build_dbi.sh xd_attribute all
$TA_TOOLS_DIR/build_dbi.sh dict_entity all
$TA_TOOLS_DIR/build_dbi.sh xd_entity all
```

From <<https://confluence.temenos.com/display/DEVWIKI/Create+new+Meta-Dictionary+attribute>>

=====

```
./cm_sh -c and then ./cm_sh -b -g
```

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=23010505600>>

=====

C code generation:

```
W:\TA\develop\triplea_core\arch\win\VS150\BIT32\bin\Debug>aaa_ddlgen.debug.exe -CCIP_LX_ORA_JB1 -Gcd -oinstrument
* * * * * Load configuration file to work on CIP_LX_ORA_JB1 * * * * *
W:\TA\AACFGPATH\GENERIC.cfg ... File doesn't exist
W:\TA\AACFGPATH\CIP_LX_ORA_JB1.cfg ... Loaded
svn export --quiet --force https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/CONFIG_FILES/L43SD2X2 C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\l43sd2x2
'svn' is not recognized as an internal or external command,
operable program or batch file.
svn export --quiet --force https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/CONFIG_FILES/GENERIC C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\GENERIC\
'svn' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\GENERIC\GENERIC.cfg ... File doesn't exist
C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\GENERIC\cip_lx_ora_jb1.cfg ... File doesn't exist
C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\l43sd2x2\GENERIC.cfg ... File doesn't exist
C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\l43sd2x2\cip_lx_ora_jb1.cfg ... File doesn't exist
C:_ftgen\TA\AUTOMATION\AUTOMATOR\CONFIG_FILES\l43sd2x2\GENERIC.cfg ... File doesn't exist
C:_ftgen\TA\AUTOMATION\AUTOMATOR\CONFIG_FILES\l43sd2x2\cip_lx_ora_jb1.cfg ... File doesn't exist
W:\TA\AACFGPATH\GENERIC.cfg ... File doesn't exist
W:\TA\AACFGPATH\CIP_LX_ORA_JB1.cfg ... Loaded
Password:
```

log4cplus:ERROR could not open file W:/TA/develop/triplea\_core/config/log4cplus.properties

log4cplus:ERROR No appenders could be found for logger (TripleA.Application).

log4cplus:ERROR Please initialize the log4cplus system properly.

```
PROCESS: Start processing... (pid#29792-tid#23708)
PROCESS: BuildCDS on entity instrument - Initialization (pid#29792-tid#23708)
SUCCESS: BuildCDS on entity instrument - Initialization done! (pid#29792-tid#23708) (4.5734 sec.)
PROCESS: Creating ddl objects on entity instrument - Dynamic Structure generation (pid#29792-tid#23708)
SUCCESS: Creating ddl objects on entity instrument - Dynamic Structure generation done! (pid#29792-tid#23708) (17.8012 sec.)
SUCCESS: Applying modifications on tables successful (pid#29792-tid#23708) (22.5758 sec.)
```

W:\TA\develop\triplea\_core\arch\win\VS150\BIT32\bin\Debug>

```
=====
-rwxrwxr-x+ 1 laxmishhegde Domain Users 46701 May 30 12:19 md_instrument.h
-rwxrwxr-x+ 1 laxmishhegde Domain Users 37841 May 30 12:19 mac_instrument.h
-rwxrwxr-x+ 1 laxmishhegde Domain Users 58312 May 30 12:19 md_instrument.c
-rwxrwxr-x+ 1 laxmishhegde Domain Users 19365 May 30 12:19 md_dyndef.h
/cygdrive/w/TA/develop/triplea_core/dyndef/gen->
```

=====

W:\TA\develop\triplea\_core\arch\win\VS150\BIT32\bin\Debug>aaa\_ddlgen.debug.exe -CCIP\_LX\_ORA\_JB1 -Gtb -oinstrument

\* \* \* \* \* Load configuration file to work on CIP\_LX\_ORA\_JB1 \* \* \* \* \*

W:\TA\AAACFGPATH\GENERIC.cfg ... File doesn't exist

W:\TA\AAACFGPATH\CIP\_LX\_ORA\_JB1.cfg ... Loaded

svn export --quiet --force [https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/CONFIG\\_FILES/L43SD2X2](https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/CONFIG_FILES/L43SD2X2) C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\L43SD2X2\

'svn' is not recognized as an internal or external command,

operable program or batch file.

svn export --quiet --force [https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/CONFIG\\_FILES/GENERIC](https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/CONFIG_FILES/GENERIC) C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\GENERIC

'svn' is not recognized as an internal or external command,

operable program or batch file.

C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\GENERIC\GENERIC.cfg ... File doesn't exist

C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\GENERIC\CIP\_LX\_ORA\_JB1.cfg ... File doesn't exist

C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\L43SD2X2\GENERIC.cfg ... File doesn't exist

C:\Users\LAXMIS~1\AppData\Local\Temp\svncfg2\L43SD2X2\CIP\_LX\_ORA\_JB1.cfg ... File doesn't exist

C:\\_ftgen\TA\AUTOMATION\AUTOMATOR\CONFIG\_FILES\L43SD2X2\GENERIC.cfg ... File doesn't exist

C:\\_ftgen\TA\AUTOMATION\AUTOMATOR\CONFIG\_FILES\L43SD2X2\CIP\_LX\_ORA\_JB1.cfg ... File doesn't exist

W:\TA\AAACFGPATH\GENERIC.cfg ... File doesn't exist

W:\TA\AAACFGPATH\CIP\_LX\_ORA\_JB1.cfg ... Loaded

Password:

log4cplus:ERROR could not open file W:/TA/develop/triplea\_core/config/log4cplus.properties

log4cplus:ERROR No appenders could be found for logger (TripleA.Application).

log4cplus:ERROR Please initialize the log4cplus system properly.

PROCESS: Start processing... (pid#35572-tid#36596)

PROCESS: Table on entity instrument - Initialization (pid#35572-tid#36596)

SUCCESS: Table on entity instrument - Initialization done! (pid#35572-tid#36596) (4.3191 sec.)

PROCESS: Creating ddl objects on entity instrument - Creation of the table (pid#35572-tid#36596)

PROCESS: Table on entity instrument - Alter table AAAMAINDB.INSTRUMENT (pid#35572-tid#36596)

SUCCESS: Table on entity instrument - Alter table AAAMAINDB.INSTRUMENT (pid#35572-tid#36596) (17.2096 sec.)

PROCESS: Table on entity instrument - ud\_instrument: Alter table AAAMAINDB.UD\_INSTRUMENT (pid#35572-tid#36596)

SUCCESS: Table on entity instrument - ud\_instrument: Alter table AAAMAINDB.UD\_INSTRUMENT (pid#35572-tid#36596) (0.0165 sec.)

PROCESS: Table on entity instrument - x\_instrument: Alter table PERMTSLDB.X\_INSTRUMENT (pid#35572-tid#36596)

SUCCESS: Table on entity instrument - x\_instrument: Alter table PERMTSLDB.X\_INSTRUMENT (pid#35572-tid#36596) (0.6762 sec.)

SUCCESS: Table on entity instrument - Creation of the table done! (pid#35572-tid#36596) (88.5767 sec.)

SUCCESS: Applying modifications on tables successful (pid#35572-tid#36596) (92.9007 sec.)

W:\TA\develop\triplea\_core\arch\win\VS150\BIT32\bin\Debug>

Foreign Key:

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -CCIP\_LX\_VM\_ORA -Uaaa -Paaaaaa -Gfk -oext\_order

SUCCESS: Standard table on entity ext\_order - Initialization done!.

PROCESS: Creating ddl objects on entity ext\_order - beginning.

PROCESS: Creating ddl objects on entity ext\_order - Creation of the foreign keys

SUCCESS: Creating ddl objects on entity ext\_order - Creation of the foreign keys done! (0.0 sec.)

DONE: Creating ddl objects on entity ext\_order - Successful.

PROCESS: Dependencies on entity <all> - Saving

Index

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -CCIP\_LX\_VM\_ORA -Uaaa -Paaaaaa -Gi -oext\_order

SUCCESS: Standard table on entity ext\_order - Initialization done!.

PROCESS: Creating ddl objects on entity ext\_order - beginning.

PROCESS: Creating ddl objects on entity ext\_order - Creation of the indexes.

PROCESS: Index on entity ext\_order - The build of all indexes begins...

NOACTION: Index on entity ext\_order - ext\_order\_adj\_ptf\_idx: The index ext\_order\_adj\_ptf\_idx is not rebuilt

NOACTION: Index on entity ext\_order - ext\_order\_bk\_idx: The index ext\_order\_bk\_idx is not rebuilt

NOACTION: Index on entity ext\_order - ext\_order\_cash\_ptf\_idx: The index ext\_order\_cash\_ptf\_idx is not rebuilt

NOACTION: Index on entity ext\_order - ext\_order\_cover\_idx: The index ext\_order\_cover\_idx is not rebuilt

NOACTION: Index on entity ext\_order - ext\_order\_ext\_order\_idx: The index ext\_order\_ext\_order\_idx is not rebuilt

NOACTION: Index on entity ext\_order - ext\_order\_funct\_result\_id\_idx: The index ext\_order\_funct\_result\_id\_idx is not rebuilt

## Procedure

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaaaa -Gp -oext\_order

## View

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaa -Gvw -oext\_order

## All objects for ext\_order

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaaaa -Gda -oext\_order

## Meta-dictionary (custom tables DS) compilation

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaa -Gds

## Meta-dictionary (custom tables) compilation

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaa -Gdu

## Meta-dictionary (persisted format tables) compilation

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaa -Gdf

## Meta-dictionary (temporary tables) compilation

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -Uaaa -Paaaaaa -Gdt

## Meta-dictionary (questionnaire tables) contents

```
/tap/CIP_LX_VM/aaahome/bin/Linux->.aaa_ddlgen64.dbg -Uaaa -Paaaaaa -Gq
```

## Meta-dictionary compilation

/tap/CIP\_LX\_VM/aaahome/bin/Linux->./aaa\_ddlgen64.dbg -CCIP\_LX\_VM\_ORA -Uaaa -Paaaaaa -Gda -oto\_i

### Install initial stored procedure

```
/tap/CIP_LX_VM/aaahome/bin/Linux->./aaa_ddlgen64.dbg -CCIP_LX_VM_ORA -Uaaa -Paaaaaaaa -Gp -o init
```

Install initial triggers  
/tmp/CIR-1X-VM/zzzhome/bin/Linux > /c

```
/tap/CIP_LX_VM/aaahome/bin/Linux->./aaa_ddlgen64.debug -CCIP_LX_VM_ORA -Uaaa -Paaaaaaaa -Gtr -o init
```

/data/tap/TAP\_UTP/aaaHome/aaa DDLGEN -Uaaa -Paaaaaaaa -Gda

Checking only the stored procedure checks, use the flag -xc

```
[aaa@myserver msg]$ vi /tap/CIP_LX_VM/aaahome/ddl/log/install_ddl.log.28395
[aaa@myserver msg]$ $AAAHOME/aaa_srv -Uaaa -Paaaaaaaa -XC
$AAAHOME is /tap/CIP_LX_VM/aaahome
Executing /tap/CIP_LX_VM/aaahome/bin/Linux/aaa_srv64 -Uaaa -Paaaaaaaa -XC

- Financial Server Start R27.11.0 2022-Mar-16 16:05:03 (LIN64) 57fba98
- Server Connections Initialization... ok
- SQL Server Connection & Dialog (CIP_LX_VM_ORA / aaalogindb)... ok
- Redirecting SQL Server Connection & Dialog (CIP_LX_VM_ORA / aaalogindb)... ok
- Meta Dictionary Load... Error while loading meta dictionary (see $AAAHOME/msg/log file)
[aaa@myserver msg]$ $AAAHOME/aaa_srv -Uaaa -Paaaaaaaa -XC
$AAAHOME is /tap/CIP_LX_VM/aaahome
Executing /tap/CIP_LX_VM/aaahome/bin/Linux/aaa_srv64 -Uaaa -Paaaaaaaa -XC

- Financial Server Start R27.11.0 2022-Mar-16 16:05:03 (LIN64) 57fba98
- Server Connections Initialization... ok
- SQL Server Connection & Dialog (CIP_LX_VM_ORA / aaalogindb)... ok
- Redirecting SQL Server Connection & Dialog (CIP_LX_VM_ORA / aaalogindb)... ok
- Meta Dictionary Load...
- Checks for database stored procedures...
Msg ERROR: Stored procedure on entity request_results - is missing
Msg ERROR: Stored procedure on entity request_results - is missing

- Checks for database stored procedures failed (see $AAAHOME/msg/log file)
- Meta Dictionary Load (continue)... ok
- Special Tables Load... failed
```

### ddlgen01.c: All the command line options for ddlgen

```
RET_CODE DDL_InstallDdlObjectByParam()
{
 RET_CODE ret = RET_SUCCEED;
 DdlGenContext ddIGenContext(EV_TargetRdbmsVendor);
 DdlGenAction ddIGenAction;

 if (SYS_GetEnv("AAAWAITFORDEBUG") != nullptr)
 {
 SYS_MilliSleep(10000);
 }

 switch (EV_GenDdlContext.infoPtr[0])
 {
 case 'd':
 switch (EV_GenDdlContext.infoPtr[1])
 {
 case 's':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_UserTableDS;
 break;
 case 'a':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_AllTable;
 break;
 case 'e':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_TslExtension;
 break;
 case 't':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_TempTable;
 break;
 case 'i':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_System;
 break;
 case 'u':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_UserTable;
 break;
 /* PMSTA-27352 - LJE - 170606 */
 case 'm':
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_ModelBank;
 break;
 }
 break;

 case 'f': /* fk */
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_ForeignKey;
 break;

 case 'i': /* idx */
 ddIGenAction.m_ddlObjNatEn = DbObjDdlObjNat_Index;
 break;

 case 'p':
 /* PMSTA13876 - DDV - 130730 - Add new case -Gpf (persisted format) to create xd_model and table for persisted formats */
 }
}
```

```

if (EV_GenDdlContext.infoPtr[1] == 'f')
{
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_PersistedFmt;
}
else
{
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_StoredProc;
}
break;

case 'q':
/* PMSTA-19243 - DDV - 150330 - Add new case -Gq (questionnaire) to create xd_model and table for questionnaires */
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_Questionnaire;
break;

/* PMSTA-22072 - LJE - 160108 */
case 'r':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_ReportFmt;
 break;
case 't':
switch (EV_GenDdlContext.infoPtr[1])
{
 case 'r':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_Trigger;
 break;

 case 'b':
 default:
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_Table;
}
break;

case 'u':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_UserTable;
break;

case 'l':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_Label;
break;

case 'v':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_View;
 break;
case 'c':
switch (EV_GenDdlContext.infoPtr[1])
{
 case 'n':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_XDDict;
 break;

 case 'd':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_BuildCDS;
 break;

 case 's':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_BuildStaticDS;
 break;

 case 'i':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_CheckIdentity;
 break;

 case '\0':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_InstallCfg;
 break;
}
break;

case 's':
 ddlGenAction.m_ddlObjNatEn = DbObjDdlObjNat_SampleImportFile;
 break;
}

/* PMSTA-14452 - LJE - 121120 */
if (EV_GenDdlContext.optionPtr != NULL)
{
 int i = 0;
 while (EV_GenDdlContext.optionPtr[i] != 0)
 {
 switch (EV_GenDdlContext.optionPtr[i])
 {
 case 'f':
 ddlGenContext.bForceReBuild = true;

```

```

 break;

 case 'c':
 ddlGenContext.bCheck = true;
 break;

 case 'u':
 ddlGenContext.bUniqueOnly = true;
 break;
 case 's':
 ddlGenContext.bSimulation = true;
 break;

 case 'i':
 ddlGenContext.bIgnoreCheck = true;
 break;

 case 'g':
 ddlGenContext.bBuildDbi = true;
 ddlGenContext.bGenFromDbi = true;
 ddlGenContext.bSimulation = true;
 ddlGenContext.setDdlDestDbName(ddlGenContext.getMainDbName(), nullptr);

 ddlGenAction.m_execModeEn = DbObjExecMod_BuildFilesOnly;

 EV_GenDdlContext.bSqlFileOnly = true;

 break;

 case 'M':
 ddlGenContext.migrationMode = DdlGenContext::MigrationMode::CfgAndData;
 break;

 case 'm':
 ddlGenContext.migrationMode = DdlGenContext::MigrationMode::Data;
 break;

 case 'o':
 ddlGenContext.optimLevelEn = DdlGenContext::OptimLevel::Full;
 break;

 case 'E':
 ddlGenAction.m_bExtractData = true;
 ddlGenAction.m_bUseNativeQuery = true;
 ddlGenAction.m_installLevel = 99;
 ddlGenContext.migrationMode = DdlGenContext::MigrationMode::Data;

 EV_AAAInstallLevel = ddlGenAction.m_installLevel;
 break;
 }
 i++;
}
}

EV_TimerMask = TIMER_MASK_GEN;
ddlGenContext.optimMask = SYS_GetEnvIntOrDefValue("AAADDLGENOPTIM", 3);

if (ddlGenAction.m_ddlObjNatEn == DbObjDdlObjNat_None)
{
 stringstream msg;

 ret = RET_ENV_ERR_WRONGCONFIG;

 msg << "ddl object nature " << EV_GenDdlContext.infoPtr << " not yet implemented";
 ddlGenContext.printMsg(ret, msg.str());
 return(ret);
}
ddlGenAction.m_mainDdlObjNatEn = ddlGenAction.m_ddlObjNatEn;

SYS_SetGetThreadICUContext(SYS_GetThreadICUContext); /* PMSTA-48207 - LJE - 220314 */
ddlGenContext.initFromIniFile();

if (ddlGenContext.checkSourceDbConnection() == false)
{
 ret = RET_DBA_ERR_CANNOTCONNECT;
 ddlGenContext.printMsg(ret, "Cannot connect to the target database!");
 return ret;
}

if (ddlGenContext.migrationMode != DdlGenContext::MigrationMode::None)
{
/* PMSTA-48744 - LJE - 220407 */

```

```
DdlGenDbi localDdlGenDbi(DdlObj_Sql, ddlGenContext, nullptr, nullptr, TargetTable_Main);
ddlGenContext.tablesFromSrcSysMap = localDdlGenDbi.getAllTablesFromSys();
/* PMSTA-37374 - LJE - 210416 - Init the exceptions */
ddlGenContext.initEntityToMigrate();
}

if (EV_GenDdlContext.objPtr != NULL)
{
 ddlGenAction.m_entitySqlnameStr = EV_GenDdlContext.objPtr;
}
ddlGenAction.m_paramEntitySqlnameStr = ddlGenAction.m_entitySqlnameStr;
ret = DDL_InstallDdlObject(ddlGenAction, ddlGenContext);

return ret;
}
```

Configure multi thread generation as 1

AAADDLGENMTSIZE=1

# Oracle - resizing online redo logs

14 August 2023 15:15

```
select * from v$log;
select group#, bytes, status from v$log;
select group#, member from v$logfile;
alter database add logfile group 4 '/data/oradata/tap/UTP1/redo04.log' size 200M;
```

## Cloud commands on kubectl

03 July 2023 16:44

```
kubectl get pods -n wealth
kubectl logs tap-web-765cc46bd9-tmrlz -n wealth -f
kubectl get pods -n wealth
kubectl logs tti-5d78cb8545-mhkpq -n wealth -f ==> Get the logs on the console
kubectl logs fin-srv-77dc896f9f-cplsd -n wealth > temp-fin.log ==> Re-direct log into file
kubectl get pods -n wealth - List all the pods
kubectl exec -it fin-srv-77dc896f9f-cplsd -n wealth sh ==> To login to the shell prompt

kubectl get pods -n transact
kubectl exec -it transact-temenos-transact-app-68f56dd489-rpc -n transact sh
kubectl get pods -n transact
kubectl exec -it transact-temenos-transact-app-68f56dd489-rpc -n transact sh

helm list -n wealth
helm get values wealth -n wealth#LT95XibjGkAQCuE+D
kubectl exec -it setup-api-0 -n wealth sh

kubectl get pods -n wealth -o wide
kubectl describe pod fin-srv-77dc896f9f-cplsd -n wealth
kubectl get pods -n wealth -o wide
kubectl describe pod fin-srv-77dc896f9f-cplsd -n wealth
kubectl get pods -n wealth -o wide
kubectl get pods -n wealth
kubectl get pods -n wealth
kubectl exec -it fin-srv-77dc896f9f-tr57w -n wealth bash
kubectl get pods -n wealth
kubectl describe pod fin-srv-77dc896f9f-tr57w -n wealth
kubectl get pods -n wealth -o wide
kubectl get deployments -n des
kubectl edit deployment des-config-installer -n des
kubectl get deployments -n des
kubectl edit deployment des-event-processor -n des
kubectl get deployments -n des
kubectl edit deployment des-event-router -n des
kubectl get cm -n des
kubectl edit cm eventhub-config -n des
=====
azcopy cp "https://tesstorageaccount202204.blob.core.windows.net/wes/WESDB.bacpac?sp=racwdvti&st=2023-07-14T07:29:28Z&se=2023-07-14T15:29:28Z&spr=https
&sv=2022-11-02&sr=b&sig=1hFLvBltJsLntTlOE1b2%2BNrNyqeIMDh%2BaamDTpKdJo%3D".
export TRANSACT_AZSQL_ADMINISTRATORLOGIN=$sqldba
export azuresqladminsecret="g9ortY3*+8MFxHewLT"
export dbhost="wealth1transactsqldatabase.windows.net"
az account set --subscription 9ab49baa-0606-4e95-8e5d-28e945d5248f
/opt/sqlpackage/sqlpackage /a:Export /ssn:$dbhost /sdn:transact1 /su:$TRANSACT_AZSQL_ADMINISTRATORLOGIN /sp:$azuresqladmin secret
/tf:/home/msundaram
/WESDB-202304-1407.bacpac
kubectl get deployments -n transact
kubectl edit deployment transact-temenos-transact-app -n transact
kubectl get cm -n transact
kubectl edit cm transact-config -n transact
/opt/sqlpackage/sqlpackage /a:Export /ssn:$dbhost /sdn:transact1 /su:$TRANSACT_AZSQL_ADMINISTRATORLOGIN /sp:$azuresqladmin secret
/tf:/home/karthik/WESDB-202304-1407.bacpac
=====
/opt/sqlpackage/sqlpackage /a:Export /ssn:$dbhost /sdn:transact1 /su:$TRANSACT_AZSQL_ADMINISTRATORLOGIN /sp:$azuresqladmin secret
/tf:/home/karthik/WESDB-202304-1407.bacpac
echo $TRANSACT_AZSQL_ADMINISTRATORLOGIN
/opt/sqlpackage/sqlpackage /a:Export /ssn:wealth1transactsqldatabase.windows.net /sdn:transact1 /su:$sqldba /sp:g9ortY3*+8MFxHewLT
/tf:/home/karthik/WESDB-202304-1407.bacpac
az sql db rename --name "transact1" --new-name "transact2" --resource-group "WEALTH1-Transact-Databases" --server "wealth1transactsqldatabase"
az login --scope https://management.core.windows.net/
az sql db rename --name "transact1" --new-name "transact2" --resource-group "WEALTH1-Transact-Databases" --server "wealth1transactsqldatabase"
/opt/sqlpackage/sqlpackage /a:Import /tsn:$dbhost /dn:transact1 /tu:$TRANSACT_AZSQL_ADMINISTRATORLOGIN /tp:$azuresqladminsecret
/tf:/home/karthik/
WESDB.bacpac"
az sql db rename --name "transact2" --new-name "transact1" --resource-group "WEALTH1-Transact-Databases" --server "wealth1transactsqldatabase"
=====

clear
az login
az account set --subscription 9ab49baa-0606-4e95-8e5d-28e945d5248f
az account set --subscription "9ab49baa-0606-4e95-8e5d-28e945d5248f"
az aks get-credentials --resource-group WEALTH1-AKS
az aks get-credentials --resource-group WEALTH1-AKS -n aks
az account set --subscription "9ab49baa-0606-4e95-8e5d-28e945d5248f"
az account show
az login
https://microsoft.com/devicelogin CT2R85SKL
az account set --subscription "9ab49baa-0606-4e95-8e5d-28e945d5248f"
az aks get-credentials --resource-group WEALTH1-AKS -n aks
=====
/home/karthik->kubectl get deployments -n wealth
NAME READY UP-TO-DATE AVAILABLE AGE
fin-srv 1/1 1 1 21d
fusion-srv 1/1 1 1 21d
gwpack 1/1 1 1 21d
iris-api 1/1 1 1 21d
sysop-api 1/1 1 1 21d
tap-web 1/1 1 1 21d
tap-web-batch 1/1 1 1 21d
tti 1/1 1 1 21d
```

```

twac 1/1 1 1 21d
ws-uxp 1/1 1 1 21d
/home/karthik>kubectl get pods -n wealth
NAME READY STATUS RESTARTS AGE
fin-srv-77dc896f9f-tr57w 1/1 Running 29 (8d ago) 8d
fusion-srv-5bfc64657-rg2t5 1/1 Running 29 (8d ago) 8d
gwpack-64fb6fd67-hfbgz 1/1 Running 0 8d
iris-api-6886f869f4-h7sm6 1/1 Running 0 8d
setup-api-0 1/1 Running 0 8d
sysop-api-5fb7896fbb-lbkv2 1/1 Running 0 8d
tap-web-765c46bd9-sxmvv 1/1 Running 0 8d
tap-web-batch-78fb5565f-jdnst 1/1 Running 0 8d
tti-5d78cb8545-52ldm 1/1 Running 0 8d
twac-7c5cdb78b5-gzxf8 1/1 Running 0 8d
ws-uxp-747cff74f-ql8kt 1/1 Running 0 8d
=====

```

<http://portal.azure.com> -> Enter user password, authenticate

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with various links and a search bar. Below it is the 'Microsoft Azure' header. The main content area is divided into several sections:

- Azure services:** A row of icons for creating a resource, Quickstart Center, Virtual machines, App Services, Storage accounts, SQL databases, Azure Cosmos DB, Kubernetes services, Function App, and More services.
- Resources:** A table showing recent resources. It includes columns for Name, Type, and Last Viewed. Two entries are listed: 'buildvm1' (Virtual machine, last viewed 40 minutes ago) and '[WEALTH1-Build]' (Resource group, last viewed 40 minutes ago). There's also a 'See all' link.
- Navigate:** A row of links for Subscriptions, Resource groups, All resources, and Dashboard.
- Tools:** A row of links for Microsoft Learn, Azure Monitor, Microsoft Defender for Cloud, and Cost Management.

Click on **buildvm1** -> Bastion

The screenshot shows the Azure portal details for the 'buildvm1' virtual machine. On the left, there's a sidebar with navigation links like Overview, Activity log, Access control (IAM), Tags, and more. The main content area shows the 'Bastion' settings for this VM. It includes fields for Username ('karthik'), Authentication Type ('Password'), and Password ('Temenos@1234'). There's also a 'Connect' button at the bottom. The right side of the screen displays a detailed description of what Azure Bastion does and its provisioning state.

=====

Connecting to DB

=====

https://portal.azure.com/#home

Azure services

Create a resource SQL databases Quickstart Center Virtual machines App Services Storage accounts Azure Cosmos DB Kubernetes services Function App More services

Resources

Recent Favorite

| Name            | Type            | Last Viewed    |
|-----------------|-----------------|----------------|
| wealth1-vm      | Virtual machine | 8 minutes ago  |
| WEALTH1-Jumpbox | Resource group  | 8 minutes ago  |
| wealth1sqldb    | SQL database    | 27 minutes ago |
| buildvm1        | Virtual machine | an hour ago    |
| WEALTH1-Build   | Resource group  | 19 hours ago   |

See all

https://portal.azure.com/#@temenosgroup.onmicrosoft.com/resource/subscriptions/9ab49baa-0606-4e95-8e5d-28e945d5248f/resourceGroups/WEALTH1-Jumpbox/overview

Microsoft Azure

WEALTH1-Jumpbox Resource group

Overview

Activity log Access control (IAM) Tags Resource visualizer Events

Settings

Deployments Security Policies Properties Locks

Cost Management

Cost analysis Cost alerts (preview) Budgets Advisor recommendations

+ Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

Subscription (move) : Infinity Strategic PoC Deployment : 4 Succeeded Subscription ID : 9ab49baa-0606-4e95-8e5d-28e945d5248f Location : East US Tags (edit) : Click here to add tags

Resources Recommendations (12)

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 7 of 7 records.  Show hidden types

|                                     | Type ↑↓                | Location ↑↑ |
|-------------------------------------|------------------------|-------------|
| <input type="checkbox"/>            | Private DNS zone       | Global      |
| <input type="checkbox"/>            | Virtual machine        | East US     |
| <input checked="" type="checkbox"/> | Public IP address      | East US     |
| <input type="checkbox"/>            | Network security group | East US     |
| <input type="checkbox"/>            | Virtual network        | East US     |
| <input type="checkbox"/>            | Network interface      | East US     |
| <input type="checkbox"/>            | Disk                   | East US     |

Home > WEALTH1-Jumpbox > wealth1-vm

**wealth1-vm** Virtual machine

**Connect** Start Restart Stop Capture Delete Refresh Open in mobile Feedback CLI / PS

Advisors (1 of 1): Log Analytics agent should be installed on virtual machines →

**Essentials**

|                       |                                        |                        |                                            |
|-----------------------|----------------------------------------|------------------------|--------------------------------------------|
| Resource group (move) | : WEALTH1-Jumpbox                      | Operating system       | : Windows (Windows Server 2019 Datacenter) |
| Status                | : Running                              | Size                   | : Standard D2s v3 (2 vcpus, 8 GiB memory)  |
| Location              | : East US                              | Public IP address      | : 13.92.29.181                             |
| Subscription (move)   | : infinity Strategic PoC               | Virtual network/subnet | : wealth1-vm-vnet/subnet                   |
| Subscription ID       | : 9ab49baa-0606-4e95-8e5d-28e945d5248f | DNS name               | : Not configured                           |
|                       |                                        | Health state           | : -                                        |

Tags (edit) : Click here to add tags

**Properties** Monitoring Capabilities (0) Recommendations (11) Tutorials

**Virtual machine**

|                           |                                          |
|---------------------------|------------------------------------------|
| Computer name             | wealth1-vm                               |
| Operating system          | Windows (Windows Server 2019 Datacenter) |
| Image publisher           | MicrosoftWindowsServer                   |
| Image offer               | WindowsServer                            |
| Image plan                | 2019-datacenter-gensecond                |
| VM generation             | V2                                       |
| VM architecture           | x64                                      |
| Agent status              | Ready                                    |
| Agent version             | 2.7.1491.1088                            |
| Host group                | None                                     |
| Host                      | -                                        |
| Proximity placement group | -                                        |
| Colocation status         | N/A                                      |

**Networking**

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Public IP address         | 13.92.29.181 ( Network interface wealth1-vm488 ) |
| Public IP address (IPv6)  | -                                                |
| Private IP address        | 10.6.0.4                                         |
| Private IP address (IPv6) | -                                                |
| Virtual network/subnet    | wealth1-vm-vnet/subnet                           |
| DNS name                  | Configure                                        |

**Size**

|       |                 |
|-------|-----------------|
| Size  | Standard D2s v3 |
| vCPUs | 2               |
| RAM   | 8 GiB           |

**Disk**

|         |                                                      |
|---------|------------------------------------------------------|
| OS disk | wealth1-vm_OsDisk_1_e9d39bc48e2d41198185bd14943bdf13 |
|---------|------------------------------------------------------|

Home > WEALTH1-Jumpbox > wealth1-vm

**wealth1-vm | Bastion** Virtual machine

**Bastion** (2 found) \*

Using Bastion: **Bastion**, Provisioning State: **Succeeded**

Please enter username and password to your virtual machine to connect using Bastion.

**Connection Settings**

|                     |              |
|---------------------|--------------|
| Username            | karthik      |
| Authentication Type | Password     |
| Password            | Temenos@1234 |

Hide  Open in new browser tab

**Connect**

To Upload and Download binaries, use the below steps

Home > tesstorageaccount202204

Search resources, services, and docs (G+)

Microsoft Azure

tesstorageaccount202204 Storage account

Search Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

Overview Essentials

Resource group (move) : tesMaterRegistry  
Location : East US  
Primary/Secondary Location : Primary: East US, Secondary: West US  
Subscription (move) : Infinity Strategic PoC  
Subscription ID : 9ab49baa-0606-4e95-8e5d-28e945d5248f  
Disk state : Primary: Available, Secondary: Available  
Tags (edit) : Click here to add tags

Performance : Standard  
Replication : Geo-redundant storage (GRS)  
Account kind : StorageV2 (general purpose v2)  
Provisioning state : Succeeded  
Created : 6/16/2022, 4:30:49 PM

Properties Monitoring Capabilities (7) Recommendations (3) Tutorials Tools + SDKs

Home > tesstorageaccount202204

tesstorageaccount202204 | Containers

Search Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover Data storage Containers File shares Queues Tables Security + networking Networking Azure CDN

Search resources, services, and docs (G+)

Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

| Name          | Last modified          | Public access level |
|---------------|------------------------|---------------------|
| Slogs         | 6/16/2022, 4:31:16 PM  | Private             |
| fabric        | 9/15/2022, 5:19:44 PM  | Container           |
| fcm           | 6/17/2022, 12:21:55 PM | Private             |
| kudologs      | 8/26/2022, 10:51:04 AM | Private             |
| microservices | 11/17/2022, 8:45:33 PM | Container           |
| pam           | 9/15/2022, 5:58:51 PM  | Container           |
| sample        | 11/23/2022, 2:17:05 PM | Private             |
| transact      | 11/11/2022, 3:04:44 PM | Container           |
| uxbp          | 9/15/2022, 6:03:05 PM  | Container           |

Home > tesstorageaccount202204 | Containers

sample Container

Search Overview Authentication method: Access key (Switch to Azure AD User Account)  
Location: sample

Upload Change access level Refresh Delete Change tier Acquire lease Break lease View

Search blobs by prefix (case-sensitive)

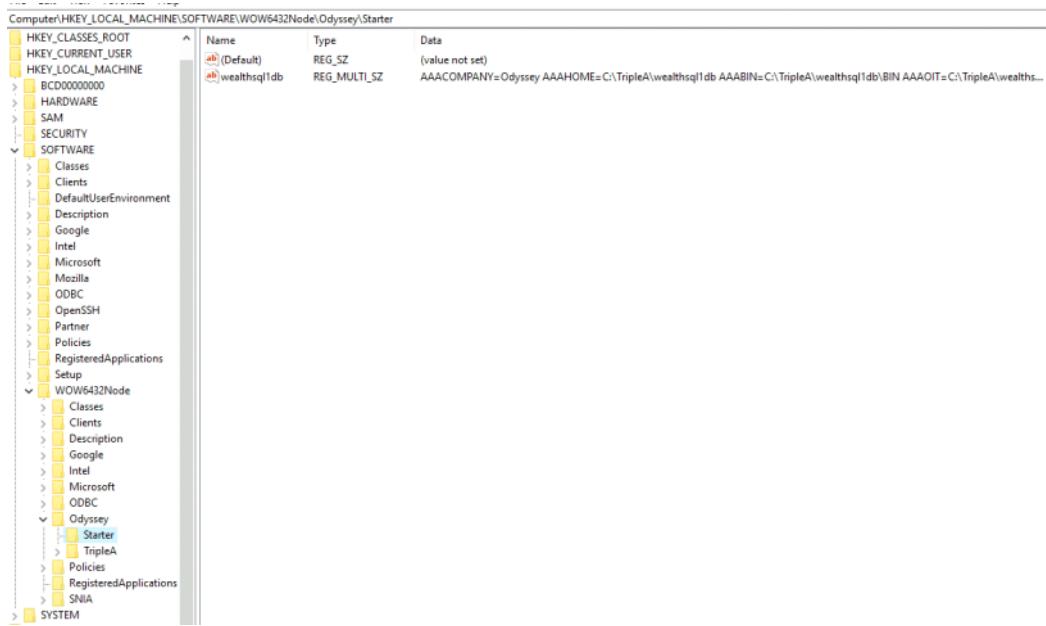
Add filter

| Name       | Modified |
|------------|----------|
| No results |          |

```
wealth1wealthsql.database.windows.net:1433
user-snldba@wealth1wealthsql
Password: #LT95XibjGkAQCuE+D
```

User=aaa

Password=DummyPass1!



karthik@buildvm1:~\$ kubectl get pods -n wealth -o wide

| NAME                          | READY | STATUS  | RESTARTS  | AGE | IP          | NODE                           | NOMINATED NODE | READINESS GATES |
|-------------------------------|-------|---------|-----------|-----|-------------|--------------------------------|----------------|-----------------|
| fin-srv-77dc896f9f-cplsd      | 1/1   | Running | 0         | 9d  | 10.5.16.219 | aks-system-21711994-vmss00000b | <none>         | <none>          |
| fusion-srv-5bf64657-2msbc     | 1/1   | Running | 1 (8 ago) | 9d  | 10.5.16.223 | aks-system-21711994-vmss00000b | <none>         | <none>          |
| gwpack-64f6bf5d67-ll95d       | 1/1   | Running | 0         | 9d  | 10.5.16.28  | aks-system-21711994-vmss000005 | <none>         | <none>          |
| iris-api-6886f869f4-8wtj      | 1/1   | Running | 0         | 9d  | 10.5.16.227 | aks-system-21711994-vmss00000b | <none>         | <none>          |
| setup-api-0                   | 1/1   | Running | 0         | 12d | 10.5.16.201 | aks-system-21711994-vmss000008 | <none>         | <none>          |
| sysop-api-5fb7896fb-rc2wb     | 1/1   | Running | 0         | 12d | 10.5.16.192 | aks-system-21711994-vmss000008 | <none>         | <none>          |
| tap-web-765cc46bd9-tmrlr      | 1/1   | Running | 0         | 9d  | 10.5.16.106 | aks-system-21711994-vmss000006 | <none>         | <none>          |
| tap-web-batch-78fb5565f-4b988 | 1/1   | Running | 0         | 9d  | 10.5.16.170 | aks-system-21711994-vmss000007 | <none>         | <none>          |
| tti-5d78cb08545-mhkpq         | 1/1   | Running | 0         | 9d  | 10.5.16.24  | aks-system-21711994-vmss000005 | <none>         | <none>          |
| twac-7c5cd7b8b5-g59lv         | 1/1   | Running | 0         | 12d | 10.5.16.189 | aks-system-21711994-vmss000008 | <none>         | <none>          |
| ws-uxp-747c5ff74f-h7sss       | 1/1   | Running | 0         | 9d  | 10.5.16.241 | aks-system-21711994-vmss00000b | <none>         | <none>          |

karthik@buildvm1:~\$ kubectl describe pod fin-srv-77dc896f9f-cplsd -n wealth

```
Name: fin-srv-77dc896f9f-cplsd
Namespace: wealth
Priority: 0
Service Account: tap-service-account
Node: aks-system-21711994-vmss00000b/10.5.16.216
Start Time: Mon, 26 Jun 2023 09:26:55 +0100
Labels: app=tap-core-fin
pod-template-hash=77dc896f9f
Annotations: kubectl.kubernetes.io/restartedAt: 2023-06-26T09:26:45+01:00
Status: Running
IP: 10.5.16.219
IPs:
IP: 10.5.16.219
Controlled By: ReplicaSet/fin-srv-77dc896f9f
Init Containers:
init-wait-for-fin-server:
Container ID: containerd://3464b5a3b8a4cf26cf43658c0f2d0c763a7906ecc6ccb0adb79e36cdd4acaa
Image: busybox
Image ID: docker.io/library/busybox@sha256:6e494387c901caf429c1bf77bd92fb82b33a68c0e19f6d1aa6a3ac8d27a7049d
Port: <none>
Host Port: <none>
Command:
/bin/sh
-c
for i in $(seq 1 300); do nc -zvw1 wealth1wealthsql.database.windows.net 1433 && exit 0 || sleep 3; done; exit 1
State: Terminated
Reason: Completed
Exit Code: 0
Started: Mon, 26 Jun 2023 09:26:57 +0100
Finished: Mon, 26 Jun 2023 09:27:02 +0100
Ready: True
Restart Count: 0
Environment: <none>
Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-
Containers:
tap-core-fin:
Container ID: containerd://6586c4b18b89097e08235a2c3ce9d6b6fd2438026ed514caece71973618a1df5
Image: wealth1cr.azurecr.io/tap-core:29.0.0
Image ID: wealth1cr.azurecr.io/tap-core@sha256:8569b9b25ab49ffe86385d197cfa209b3427a083ac7f4ee656a9601b489e584e
Port: 5100/TCP
Host Port: 0/TCP
State: Running
Started: Mon, 26 Jun 2023 09:27:26 +0100
Ready: True
Restart Count: 0
```

Requests:

cpu: 1  
memory: 4G

Liveness: http-get <http://:5100/isready> delay=0s timeout=1s period=5s #success=1 #failure=12

Startup: http-get <http://:5100/isready> delay=0s timeout=1s period=1s #success=1 #failure=60

Environment:

```

FIN_SERVER_FLAG: 1
FUSION_SERVER_FLAG: 0
REPORT_SERVER_FLAG: 1
PROXY_SERVER_FLAG: 1
AAACIPHERCODEC: platform-codec-v1
AAASAFESHUTDOWNTIMEOUTSEC: 300
POOL_NAME: wealth1:default
FS_EXTERNAL_LISTENER_HOST: tap-core-service
FS_EXTERNAL_LISTENER_PORT: 80
TWAC_URL: http://twac-service.wealth.svc.cluster.local/twac
TWAC_APIKEY: default
TWAC_ZONENAME: WealthSuite
TWAC_PROFILES: autodelete
APPL_OWNER: <set to the key 'username' in secret 'user-aaa-secret'> Optional: false
APPL_OWNER_PASSWD: <set to the key 'password' in secret 'user-aaa-secret'> Optional: false
APPL_PROXY: <set to the key 'username' in secret 'user-proxy-secret'> Optional: false
APPL_PROXY_PASSWD: <set to the key 'password' in secret 'user-proxy-secret'> Optional: false
APPL_TASC: <set to the key 'username' in secret 'user-tasc-secret'> Optional: false
APPL_TASC_PASSWD: <set to the key 'password' in secret 'user-tasc-secret'> Optional: false
AAA_RDBMS: MSSQL
DB_HOST: wealth1wealthsql.database.windows.net
DB_PORT: 1433
ENVIRON_NAME: wealth1
DB_NAME: wealth1sqldb
AAALOGINDB: aaalogindb
AAAMAINDB: aaamaindb
AAAREPDB: aaarepdb
TEMPDB:
TSLPERMDB: permstldb
TSLTEMPDB: temptsldb
LISTENER_SSL: false

```

Mounts:

```

/config/app-owner-user from app-owner-user-config (ro)
/config/proxy-user from proxy-user-config (ro)
/config/tasc-user from tasc-user-config (ro)
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-w87ck (ro)

```

Conditions:

| Type            | Status |
|-----------------|--------|
| Initialized     | True   |
| Ready           | True   |
| ContainersReady | True   |
| PodScheduled    | True   |

Volumes:

app-owner-user-config:

```

Type: Secret (a volume populated by a Secret)
SecretName: user-aaa-secret
Optional: false

```

tasc-user-config:

```

Type: Secret (a volume populated by a Secret)
SecretName: user-tasc-secret
Optional: false

```

proxy-user-config:

```

Type: Secret (a volume populated by a Secret)
SecretName: user-proxy-secret
Optional: false

```

# Process writing the file in Linux

27 July 2023 12:12

```
/oams/d_e2e_dev3/aaa/current/msg->fuser -v log
```

```
USER PID ACCESS COMMAND
```

```
/oams/d_e2e_dev3/aaa/current/msg/log:
```

```
dev 173151 F.... aaa_srv64
```

```
dev 299833 F.... rolitd
```

```
dev 301975 F.... aaa_subd
```

```
$ fuser -cv text.txt USER PID ACCESS COMMAND /home/john/text.txt: root kernel mount /home ... john 24807 F.c.. vi
```

From <<https://www.baeldung.com/linux/find-process-file-is-busy>>

```
$ lsof | { head -1 ; grep text.txt ; } COMMAND PID TID TASKCMD USER FD TYPE DEVICE SIZE/OFF NODE NAME less 28423 john 4r REG 8,3 75 3146117 /home/john/text.txt
```

From <<https://www.baeldung.com/linux/find-process-file-is-busy>>

```
$ ls -l /proc/*/fd
```

From <<https://www.baeldung.com/linux/find-process-file-is-busy>>

# Cloud Mirabau Environment Details - MRDBWPOC

26 July 2023 22:29

## Resourcegroups

Search for MRDBWPOC in virtual machines

Username : laxmishhegde

Password : LO\_m7DrrgKS5SDL

=====

helm get values -n wealth

<https://mrdbwpockv.vault.azure.net/secrets/wealthsqlbadminsecret/72f93f92d9864be086f29fee7bcb6b2e>

mrdbwpocsql

sqlba/QuNiOD#RJxres@hBmd

=====

mrdbwpocsql (mrdbwpocwealthsql/mrdbwpocsql) SQL database

Overview Monitoring Properties Features Notifications (2) Integrations Tutorials

Database data storage

0.91% Used

**mrdbwpocsqldb (mrdbwpocwealthsql/mrdbwpocsqldb)**

**Essentials**

- Resource group (mrdbwpocsqldb) : MRDBWPOC-Wealth-Databases
- Status : Online
- Location : Switzerland North
- Subscription (mrdbwpocsqldb) : EUR: MRDEW: Mirabaud: NON-PROD
- Subscription ID : 9114fb40-556e-495b-bfcd-1a425cd1a340
- Tags (edit) : Click here to add tags
- Server name : mrdbwpocwealthsql.database.windows.net
- Elastic pool : No elastic pool
- Connection strings : Show database connection strings
- Pricing tier : Standard S4: 200 DTUs
- Earliest restore point : 2023-07-19 05:09 UTC

**Monitoring**

**Database data storage**

Review the below metrics and monitor your applications and infrastructure.

0.91% Used

Used space | Remaining space | Allocated space | Max storage

**MRDBWPOC-Core**

**Essentials**

- Subscription (mrdbwpocsqldb) : EUR: MRDEW: Mirabaud: NON-PROD
- Subscription ID : 9114fb40-556e-495b-bfcd-1a425cd1a340
- Creator : MRDBWNONPROD-cloud2.0 Date : 2022-11-16 INSTANCE\_ID : mrdbwpoc
- Deployments : 3 Failed 20 Succeeded
- Location : Switzerland North

**Resources**

| Name                                              | Type                      | Location          |
|---------------------------------------------------|---------------------------|-------------------|
| ConfigureDisk (mrdbwpoc-automation/ConfigureDisk) | Runbook                   | Switzerland North |
| Failure Anomalies - MRDBWPOC-USSAAS-AppInsights   | Smart detector alert rule | Global            |
| mrdbwpoc-automation                               | Automation Account        | Switzerland North |
| mrdbwpoc-automation-id                            | Managed Identity          | Switzerland North |
| MRDBWPOC-Networkmrdbwpoclogsa-blob-private-end-   | Private endpoint          | Switzerland North |

The screenshot shows the Microsoft Azure portal interface. The left sidebar shows various service icons and navigation links. The main content area is titled "mrdbwPOCkv | Secrets". A sidebar on the left lists "Key vault" options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Access policies, Events, Objects, Keys, Secrets (which is selected and highlighted in blue), and Certificates. Below these are "Settings" sections for Access configuration, Networking, Microsoft Defender for Cloud, Properties, and Locks. The main pane displays a table of secrets:

| Name | Type | Status |
|------|------|--------|
|      |      |        |

This screenshot is identical to the one above, showing the Microsoft Azure portal with the Secrets blade open for the mrdbwPOCkv key vault. The sidebar and main content area are the same, showing the list of secrets in the table:

| Name                    | Type              | Status    |
|-------------------------|-------------------|-----------|
| adlg2SasToken           | Deployment secret | ✓ Enabled |
| artifactStorageSasToken | Deployment secret | ✓ Enabled |
| CertPassword            | Deployment secret | ✓ Enabled |
| ConfigureDisk           | Deployment secret | ✓ Enabled |
| dApiToken               | Deployment secret | ✓ Enabled |
| DevOpsPAT               | Deployment secret | ✓ Enabled |
| dPaasToken              | Deployment secret | ✓ Enabled |
| dTenantUrl              | Deployment secret | ✓ Enabled |
| dtFcmPwd                | Deployment secret | ✓ Enabled |
| dtSpClientId            | Deployment secret | ✓ Enabled |
| dtSpSecretKey           | Deployment secret | ✓ Enabled |
| dtSpTenantId            | Deployment secret | ✓ Enabled |
| dtTAFJPwd               | Deployment secret | ✓ Enabled |
| dtTransactPwd           | Deployment secret | ✓ Enabled |
| evtadapling             | Deployment secret | ✓ Enabled |
| evtcoreing              | Deployment secret | ✓ Enabled |

Microsoft Azure Search resources, services, and docs (G+ /)

Home > Resource groups > MRDBWPOC-Core > mrdbwPOCkv | Secrets >

**wealthsqlbadminsecret** ...

Versions

+ New Version Refresh Delete Download Backup

| Version                          | Status    | Activation date | Expiration date |
|----------------------------------|-----------|-----------------|-----------------|
| CURRENT VERSION                  |           |                 |                 |
| 72f93f92d9864be086f29fee7bcb6b2e | ✓ Enabled |                 |                 |

Home > Resource groups > MRDBWPOC-Core > mrdbwPOCkv | Secrets > wealthsqlbadminsecret >

**72f93f92d9864be086f29fee7bcb6b2e** ⚡ ...

Secret Version

Properties

Created 11/21/2022, 12:06:59 PM

Updated 11/21/2022, 12:06:59 PM

Secret Identifier <https://mrdbwpockv.vault.azure.net/secrets/wealthsqlbadminse...>

Settings

Set activation date

Set expiration date

Enabled **Yes**  No

Tags 1 tag

Secret

Content type (optional)

Show Secret Value

Secret value

For Upload and download use the following resource group:

Temenos Links jQuery: AJAX and X... Re: [algogeeks] Vert... jQuery ContentHov... hoverOver - jQuery... How to Make a S... Suggested Sites Other bookmarks

Microsoft Azure Search resources, services, and docs (G+)

All resources Home > All resources >

**wealth1teminfas623** Storage account

Search Overview Essentials JSON View

Name: wealth1item

Resource group (move) : wealth1-Core Performance : Standard

Location : North Europe Replication : Locally-redundant storage (LRS)

Subscription (move) : Infinity\_Strategic\_PoC Account kind : StorageV2 (general purpose v2)

Subscription ID : 9ab49baa-0606-4e95-8e5d-28e945d5248f Provisioning state : Succeeded

Disk state : Available Created : 6/19/2023, 11:33:25 AM

Tags (edit) : Creator : Infinity\_Strategic\_PoC Date : 2023-06-19 INSTANCE\_ID : wealth1 NAME : wealth1 DATA\_ZONE : northeurope

EnvironmentClass : D ResourceType : Storage Account

Properties Monitoring Capabilities (7) Recommendations (1) Tutorials Tools + SDKs

Containers Blob service Security

| Hierarchical namespace | Disabled | Require secure transfer for REST API operations |
|------------------------|----------|-------------------------------------------------|
| Default access tier    | Hot      | Enabled                                         |
| Blob public access     | Disabled | Storage account key access                      |
| Blob soft delete       | Disabled | Minimum TLS version                             |
| Container soft delete  | Disabled | Infrastructure encryption                       |

File shares Queues Tables

Storage browser Storage Mover

Events Data migration Access Control (IAM) Diagnose and solve problems Tags Activity log

Containers

File shares Queues Tables

Security + networking

# Transact F2B B2F applications and commands

23 July 2023 22:28

kubectl get pods -n autoscale  
IF.INTEGRATION.SERVICE.PARAM  
SYSTEM

IF.INTEGRATION.FLOW.CATALOG  
TSA.PARAMETER  
SYSTEM

# Ms sql server general queries

06 July 2023 14:35

```
SQL> create login mit with password='Mit123Mit'

SQL> alter login mit enable

SQL> create login hla with password='hlahla';

SQL> create user hla for login hla with default_schema = aaamaindb;

SQL> alter role TRIPLEA add member hla;

SQL> alter login aaa with password='aaaaaa';

SQL> execute aaamaindb.ins_appl_user_by_id null,'hla','hla',null,1,1,null,1,null,null,1,'hla',1,1,1,1,null,1,0,null,1,0,null,null,'',null,null,1,1,0,0,0,
null,null,null,null,1,null,null,null,null,3;
select * from aaamaindb.appl_user where code='hla';

SQL> disable/enable trigger aaamaindb.i_appl_user_trg on aaamaindb.appl_user;
```

```
SQL> Use master
SQL> GO
SQL> ALTERLOGIN hla WITHDEFAULT_DATABASE =CIP_LX_MSS6
SQL> GO
```

From <<https://stackoverflow.com/questions/8528768/cannot-open-user-default-database-login-failed-after-installing-sql-server-m>>

```
c:\mysql\MySQL Server 5.5\bin> mysql.exe -u root --password
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sonar |
| test |
+-----+
5 rows in set (0.00 sec)
mysql> use mysql
Database changed
mysql> show tables;
+-----+
| Tables_in_mysql |
+-----+
| columns_priv |
| db |
| event |
| func |
| general_log |
| help_category |
| help_keyword |
| help_relation |
| help_topic |
| host |
| ndb_binlog_index |
| plugin |
| proc |
| procs_priv |
| proxies_priv |
| servers |
| slow_log |
| tables_priv |
| time_zone |
| time_zone_leap_second |
| time_zone_name |
| time_zone_transition |
| time_zone_transition_type |
| user |
+-----+
24 rows in set (0.00 sec)
mysql> select * from columns_priv;
Empty set (0.02 sec)
mysql> select * from db;
+-----+-----+-----+-----+-----+
| Host | Db | User | Select_priv | Insert_priv | Update_priv | Delete_p
riv | Create_priv | Drop_priv | Grant_priv | References_priv | Index_priv | Alte
r_priv | Create_tmp_table_priv | Lock_tables_priv | Create_view_priv | Show_view
_priv | Create_routine_priv | Alter_routine_priv | Execute_priv | Event_priv | T
+-----+-----+-----+-----+-----+
```

mysql.exe Ver 14.14 Distrib 5.5.39, for Win64 (x86)

```

Connection id: 9016
Current database: mysql
Current user: root@localhost
SSL: Not in use
Using delimiter: ;
Server version: 5.5.39 MySQL Community Server (GPL)
Protocol version: 10
Connection: localhost via TCP/IP
Server characterset: latin1
Db characterset: latin1
Client characterset: latin1
Conn. characterset: latin1
TCP port: 3306
Uptime: 61 days 19 hours 17 min 30 sec
Threads: 3 Questions: 44286475 Slow queries: 0 Opens: 5966 Flush tables: 1
Open tables: 8 Queries per second avg: 8.293

```

```
mysql> show variables like '%char%';
```

| Variable_name            | Value                                           |
|--------------------------|-------------------------------------------------|
| character_set_client     | latin1                                          |
| character_set_connection | latin1                                          |
| character_set_database   | latin1                                          |
| character_set_filesystem | binary                                          |
| character_set_results    | latin1                                          |
| character_set_server     | latin1                                          |
| character_set_system     | utf8                                            |
| character_sets_dir       | C:\mysql\MySQL\MySQL Server 5.5\share\charsets\ |

```
8 rows in set (0.00 sec)
```

```
mysql> SELECT TABLE_NAME, ENGINE FROM information_schema.TABLES WHERE TABLE_SCHEMA = 'mysql';
```

| TABLE_NAME                | ENGINE |
|---------------------------|--------|
| columns_priv              | MyISAM |
| db                        | MyISAM |
| event                     | MyISAM |
| func                      | MyISAM |
| general_log               | CSV    |
| help_category             | MyISAM |
| help_keyword              | MyISAM |
| help_relation             | MyISAM |
| help_topic                | MyISAM |
| host                      | MyISAM |
| ndb_binlog_index          | MyISAM |
| plugin                    | MyISAM |
| proc                      | MyISAM |
| procs_priv                | MyISAM |
| proxies_priv              | MyISAM |
| servers                   | MyISAM |
| slow_log                  | CSV    |
| tables_priv               | MyISAM |
| time_zone                 | MyISAM |
| time_zone_leap_second     | MyISAM |
| time_zone_name            | MyISAM |
| time_zone_transition      | MyISAM |
| time_zone_transition_type | MyISAM |
| user                      | MyISAM |

```
24 rows in set (0.00 sec)
```

```
mysql> SELECT TABLE_NAME, ENGINE FROM information_schema.TABLES WHERE TABLE_SCHEMA = 'sonar';
```

| TABLE_NAME                | ENGINE |
|---------------------------|--------|
| action_plans              | InnoDB |
| action_plans_reviews      | InnoDB |
| active_dashboards         | InnoDB |
| active_rule_changes       | InnoDB |
| active_rule_notes         | InnoDB |
| active_rule_param_changes | InnoDB |
| active_rule_parameters    | InnoDB |
| active_rules              | InnoDB |
| alerts                    | InnoDB |
| authors                   | InnoDB |
| characteristic_edges      | InnoDB |
| characteristic_properties | InnoDB |
| characteristics           | InnoDB |
| criteria                  | InnoDB |
| dashboards                | InnoDB |
| dependencies              | InnoDB |
| duplications_index        | InnoDB |
| events                    | InnoDB |
| filter_columns            | InnoDB |
| filters                   | InnoDB |
| group_roles               | InnoDB |
| groups                    | InnoDB |
| groups_users              | InnoDB |
| loaded_templates          | InnoDB |
| manual_measures           | InnoDB |
| measure_data              | InnoDB |
| metrics                   | InnoDB |
| notifications             | InnoDB |
| project_links             | InnoDB |
| project_measures          | InnoDB |
| projects                  | InnoDB |

```
properties	InnoDB
quality_models	InnoDB
resource_index	InnoDB
review_comments	InnoDB
reviews	InnoDB
rule_failures	InnoDB
rule_notes	InnoDB
rules	InnoDB
rules_parameters	Innodb
rules_profiles	InnoDB
schema_migrations	InnoDB
snapshot_sources	InnoDB
snapshots	InnoDB
user_roles	InnoDB
users	InnoDB
widget_properties	Innodb
widgets	InnoDB
+-----+-----+
48 rows in set (0.00 sec)
```

From <<http://rd.temenosgroup.com/browse/CMT-11015>>

## Bash shell

02 January 2023 15:20

**\$\* Stores all the arguments that were entered on the command line (\$1 \$2 ...). "\$@" Stores all the arguments that were entered on the command line, individually quoted ("\$1" "\$2" ...).**

From <[TAP Global Note Page 98](https://www.google.com/search?q=bash+%24%40+vs+%24*&sxsrf=ALiCzsabVdyPmOZl5sm6q96OmKp0moVbcg%3A1672652141361&source=hp&ei=baWY8vAF9L04-EP4caeAU&ifisig=AiiK0e8AAAAAY7KzFc0d5IMK0PuJ-T2Cz15FxvwHld&q=bash+%24%40&gs_lcp=Cgdnd3Mtd2l6AMYATIFCAQgAQvBQgAEAEIaEMjUIABCABDfCAAQgAQvBQgAEAEIaMgUIABCABDfCAAQgAQvBQgAEIAEiMgUIABCABDfCAAQgAQ6CwgABAELDEIMBQgsIhCABCxAcQDAToCC4QsQMQgwE6BQguEIAEOggIABCABCxAzRCC4QgAQQsQMQgwE0xwEQ0QM6CaguEIAEENQCQggIhCABCxAzoOCC4QgAQQsQMQgwEQ1AI6C4guELEDEIAEQgsIhCABDHARCVAtolCAAQsQMQgwE6BwgxEAEApQAfIkG2CBMgAcB4A1AbgOIAfmKkgEHMC42LjUTMzgBAKABAQ&scilnt=gws-wiz></a></p></div><div data-bbox=)

# Oracle: Stored Procedures, packages & Arguments Queries (parameters)

30 October 2022 22:30

## Arguments Accessible from procedures accessible from the current User

```
select proc.owner as schema_name,
 proc.object_name as procedure_name,
 args.argument_name,
 args.in_out,
 args.data_type,
 args.data_length,
 args.data_precision,
 args.data_scale,
 args.defaulted,
 args.default_value
 from sys.all_procedures proc
 left join sys.all_arguments args
 on proc.object_id = args.object_id
 where proc.owner not in ('ANONYMOUS','CTXSYS','DBSNMP','EXFSYS',
 'MDSYS', 'MGMT_VIEW', 'OLAPSYS', 'OWBSYS', 'ORDPLUGINS', 'ORDSYS',
 'OUTLN', 'SI_INFORMTN_SCHEMA', 'SYS', 'SYSMAN', 'SYSTEM', 'TSMSYS',
 'WK_TEST', 'WKSYS', 'WKPROXY', 'WMSYS', 'XDB', 'APEX_040000',
 'APEX_PUBLIC_USER', 'DIP', 'FLOWS_30000', 'FLOWS_FILES', 'MDDATA',
 'ORACLE_OCM', 'XS$NULL', 'SPATIAL_CSW_ADMIN_USR', 'LBACSYS',
 'SPATIAL_WFS_ADMIN_USR', 'PUBLIC', 'APEX_040200')
 and object_type = 'PROCEDURE'
 order by schema_name,
 procedure_name,
 args.position;
```

From <<https://dataedo.com/kb/query/oracle/list-stored-procedure-parameters>>

## dba\_procedures and dba\_arguements:

```
select proc.owner as schema_name,
 proc.object_name as procedure_name,
 args.argument_name,
 args.in_out,
 args.data_type,
 args.data_length,
 args.data_precision,
 args.data_scale,
 args.defaulted,
 args.default_value
 from sys.dba_procedures proc
 left join sys.dba_arguments args
 on proc.object_id = args.object_id
 where proc.owner not in ('ANONYMOUS','CTXSYS','DBSNMP','EXFSYS',
 'MDSYS', 'MGMT_VIEW', 'OLAPSYS', 'OWBSYS', 'ORDPLUGINS', 'ORDSYS',
 'OUTLN', 'SI_INFORMTN_SCHEMA', 'SYS', 'SYSMAN', 'SYSTEM', 'TSMSYS',
 'WK_TEST', 'WKSYS', 'WKPROXY', 'WMSYS', 'XDB', 'APEX_040000',
 'APEX_PUBLIC_USER', 'DIP', 'FLOWS_30000', 'FLOWS_FILES', 'MDDATA',
 'ORACLE_OCM', 'XS$NULL', 'SPATIAL_CSW_ADMIN_USR', 'LBACSYS',
 'SPATIAL_WFS_ADMIN_USR', 'PUBLIC', 'APEX_040200')
 and object_type = 'PROCEDURE'
order by schema_name,
 procedure_name,
 args.position;
```

# Columns

- **schema\_name** - name of the schema containing function
- **procedure\_name** - name of the function
- **argument\_name** - function argument name
- **in\_out** - direction of argument
  - IN
  - OUT
  - IN/OUT
- **data\_type** - data type of argument
- **data\_length** - length of data type in bytes
- **data\_precision** - length in decimal digits (NUMBER) or binary digits (FLOAT)
- **data\_scale** - digits to the right of the decimal point in a number
- **defaulted** - indicate if argument has default value
- **default\_value** - if argument is defaulted then value of default value, else null

# Rows

- **One row** represents one procedure argument or procedure if it hasn't any argument
- **Scope of rows:** all arguments from all procedures
- **Ordered by** schema name, procedure name, argument position

```
SELECT OBJECT_NAME,
 NVL2(MIN(OVERLOAD),'OVERLOADED ',NULL) ||
 NVL2(PACKAGE_NAME,NULL,'STANDALONE ') ||
 DECODE(MIN(POSITION),0,'FUNCTION','PROCEDURE') ||
 NVL2(PACKAGE_NAME,' IN PACKAGE '||PACKAGE_NAME,NULL) ||
 ' OWNED BY USER '||OWNER AS RESULT
 FROM (
 SELECT OWNER,
 PACKAGE_NAME,
 OBJECT_NAME,
 SUBPROGRAM_ID,
 POSITION,
 OVERLOAD
 FROM DBA_ARGUMENTS
```

```
UNION ALL
SELECT OWNER,
 NULL,
 OBJECT_NAME,
 1,
 1,
 NULL
 FROM DBA_OBJECTS
 WHERE OBJECT_TYPE = 'PROCEDURE'
)
GROUP BY OWNER,
 PACKAGE_NAME,
 OBJECT_NAME,
 SUBPROGRAM_ID
ORDER BY OWNER,
 PACKAGE_NAME,
 OBJECT_NAME,
 SUBPROGRAM_ID;
```

# Export Format Usage & using ExpTripleA

Monday, May 30, 2022 9:40 PM

[JSON Import/Export - R&D Products & Components - Confluence PROD \(temenos.com\)](#)

```
$AAAHOME/aaa IMP $UP -MExpJSON <<<"{\\"export_query\":{\\"entity_dict_id\\\":\\\"server_connect\\\",\\\"export_query_c\\\":\\\"&server_name LIKE \\\\\\"*\\\\\\\"}}"
```

```
$AAAHOME/aaa IMP -U<user> [-P<password>] -MImpJSON [-p<entity_profile>] [-i<input_file>] [-o<output_file>]
```

From <<https://confluence.temenos.com/pages/viewpage.action?pageId=278463011>>

Content of file fixedinstr.in as below with format PCK\_RMT\_INSTR:

```

SET QUOTE '
SET ESCAPE #
SET SEPARATOR ;
SET DECIMAL ,
SET THOUSAND .
SET DATAFORMAT FIXED
CMD EXPORT instrument
FMT PCK_RMT_INSTR
SEL 'nature_e = 2 AND ref_curr.code IN ("LUF", "BEF", "DEM", "NLG", "CHF", "USD", "EUR", "AUD")'

```

This file exports the data defined in the FORM-MAIN.INSTR format for all the instruments of Fixed Income nature whose reference currency is LUF, BEF, DEM or NLG. To run this script, copy it to the file fixedcurr.in (say) and execute the command:

```
aaa imp -Uusername -Ppassword -SSUN_ALPHA_SQL -MExpTripleA <fixedcurr.in> file.out
```

Content of file.out will be:

```
MSG AAAHOME is /tap/CIP_LX_VM/aaahome
MSG Executing /tap/CIP_LX_VM/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a
NULL T_AI_129_C_9478 T_AI_129_C_9478CH 4%96 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57043 T_AI_129_C_57043CH 7,50%94 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57046 T_AI_129_C_57046CH 7,75%95 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57049 T_AI_129_C_57049CH 7,25%95 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57054 T_AI_129_C_57054CH TEC10 96 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57059 T_AI_129_C_57059CH 5,50%97 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57063 T_AI_129_C_57063CH 5,25%98 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57053 T_AI_129_C_57053CH 6,50%96 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57057 T_AI_129_C_57057CH 5,50%96 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57143 T_AI_129_C_57143CH 4%98 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57142 T_AI_129_C_57142CH 3%98 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
NULL T_AI_129_C_57067 T_AI_129_C_57067CH TEC10 97 2 Fixed Income CHFSwiss Franc 1 NULL NULL NULL NULL
NULLNULL 1
=====
```

currency.exp

```
SET QUOTE '
SET SEPARATOR ^
SET DECIMAL .
SET THOUSAND NONE
SET DATAFORMAT DELIMITED
SET DATEFORMAT DD/MM/YYYY
REM HEADER NO
CMD EXPORT currency
FMT PCK_RMT_CURRENCY
SEL 'code IN ("LUF", "BEF", "DEM", "NLG", "CHF", "USD", "EUR", "AUD")'
```

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa IMP -M ExpTripleA -Uaaa -Paaaaaaaa < currency.exp > currency.imp
```

Content of currency.imp

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> cat currency.imp
MSG AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
```

```

MSG Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_imp64 -M
REM ICU Time Zone Data Version : 2019a
NULL^T_AI_MWM_CHF^T_AI_MWM_CHF^T_AI_MWM_CHF^NULL^CH^Switzerland
NULL^T_AI_MWM_USD^T_AI_MWM_USD^T_AI_MWM_USD^NULL^US^United States of America
NULL^T_AI_MWM_GBP^T_AI_MWM_GBP^T_AI_MWM_GBP^NULL^GB^Great Britain
NULL^T_AI_MWM_CAD^T_AI_MWM_CAD^T_AI_MWM_CAD^NULL^CA^Canada
NULL^T_AI_MWM_SEK^T_AI_MWM_SEK^T_AI_MWM_SEK^NULL^SE^Sweden
NULL^JPX^JPX^JPX^JPX^JP^Japan
NULL^CA_34769^CA_34769^CA_34769^NULL^NULL^NULL
NULL^CHF^CHF^CHF^Swiss Franc^CH^Switzerland
NULL^EUR^EUR^EUR^Euro^EU^EuroZone
NULL^USD^USD^USD^USD^US^United States of America
NULL^JPY^JPY^JPY^Japonese Yen^JP^Japan
NULL^GBP^GBP^GBP^Great Britain Pound^GB^Great Britain
NULL^AUD^AUD^AUD^Australian Dollar^AU^Australia
NULL^CAD^CAD^CAD^Canadian Dollar^CA^Canada
NULL^SEK^SEK^SEK^Swedish Krona^SE^Sweden
NULL^QAR^QAR^QAR^Qatari Ryal^QAT^Qatar
NULL^KRW^KRW^KRW^KRW^South Korean Won^KRW^KRW
NULL^SGD^SGD^SGD^Singapore Dollar^SG^Singapore
NULL^CLP^CLP^CLP^Chilean Peso^CHL^Chile
NULL^BRL^BRL^BRL^Brazilian Real^BR^BRAZIL
=====
aaa@vmlaulxora7:/oams/CIP_LX_MSS_AUT/aaahome> cat crncy.exp
SET DATAFORMAT DELIMITED
SET DECIMAL .
SET THOUSAND '
SET PREFIX FORMAT FORMAT
SET PREFIX LIST LIST
SET PREFIX COMMAND COMMAND
SET PREFIX ATTRIBUTE COLUMN

SET DATEFORMAT MON DD,YYYY
SET HEADER YES
SET ROWCOUNT 10

COMMAND EXPORT currency
SEL 'code LIKE "***"

aaa@vmlaulxora7:/oams/CIP_LX_MSS_AUT/aaahome> ./aaa IMP -Umssautaaa -MExpOutbox <crncy.exp
=====
aaa@vmlaulxora7:/oams/CIP_LX_MSS6/aaahome> ./aaa IMP -Umss6aaa -MExpOutbox </ptf.exp
MSG AAAHOME is /oams/CIP_LX_MSS6/aaahome
MSG Executing /oams/CIP_LX_MSS6/aaahome/bin/Linux/aaa_imp64 -Umss6aaa
REM ICU Time Zone Data Version : 2019a
Export Outbox 'portfolio' complete.
aaa@vmlaulxora7:/oams/CIP_LX_MSS6/aaahome>

aaa@vmlaulxora7:/oams/CIP_LX_MSS6/aaahome> cat ptf.exp
SET DATAFORMAT DELIMITED
SET DECIMAL .
SET THOUSAND '
SET PREFIX FORMAT FORMAT
SET PREFIX LIST LIST
SET PREFIX COMMAND COMMAND
SET PREFIX ATTRIBUTE COLUMN

SET DATEFORMAT MON DD,YYYY
SET HEADER YES
SET ROWCOUNT 10

COMMAND EXPORT portfolio
SEL 'code LIKE "T_AI_**"
aaa@vmlaulxora7:/oams/CIP_LX_MSS6/aaahome>
=====

aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB3/aaahome> cat instr.exp
SET QUOTE '
SET ESCAPE #
SET SEPARATOR ;
SET DECIMAL ,
SET THOUSAND .
SET DATAFORMAT FIXED
CMD EXPORT instrument
REM FMT PCK_RMT_INSTR
SEL 'nature_e = 2 AND ref_curr.code IN ("LUF", "BEEF", "DEM", "NLG", "CHF", "USD", "EUR", "AUD")'
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB3/aaahome> ./aaa IMP -Uaaa -MExpOutbox <./instr.exp
MSG AAAHOME is /oams/CIP_LX_ORA_JB3/aaahome
MSG Executing /oams/CIP_LX_ORA_JB3/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a

```

```
Export Outbox 'instrument' complete.
aaa@vmlaulkora1:/oams/CIP_LX_ORA_JB3/aaahome>
=====
```

#### Export json:

```
$AAAHOME/aaa IMP64 -Uvorapmci_1aaa -Pvorapmci_1aaaavorapmci_1aaa -MExpJSON -o test_curr.json <<-END
{ "currency": [
 { "code": "INR" }
]
}
END
```

test\_curr.json

```
{
 "currency": {
 "code": "SA2",
 "name": "SA2",
 "denom": "Indian Rupee",
 "geographic_id": "CA",
 "provider_third_id": "REUTERS",
 "market_third_id": null,
 "calendar_id": "SYS_CALENDAR",
 "autocreated_f": "No",
 "rank_n": 30,
 "euro_exch_rate": null,
 "round_unit_e": "0.01",
 "round_rule_e": "Nearest",
 "euro_conv_d": null,
 "ud_amount_m": null,
 "ud_code_c": null,
 "ud_date_d": null,
 "ud_datetime_d": null,
 "ud_enum_e": "Enum val 0",
 "ud_exchange_rate": null,
 "ud_flag_f": "no",
 "ud_int_i": null,
 "ud_longamount_m": null,
 "ud_name_c": null,
 "ud_note_c": null,
 "ud_number_n": null,
 "ud_percent_p": null,
 "ud_period_si": null,
 "ud_phone_c": null,
 "ud_smallint_si": null,
 "ud_sysname_c": null,
 "ud_tinyint_ti": null,
 "ud_type_id_id": null,
 "denomination": null,
 "notepad": null,
 "exch_format": null,
 "exch_rate": null,
 "curr_chrono": null
 }
}
```

#### Import json:

```
$AAAHOME/aaa IMP64 -Uv_gen_reg3aaa -Pv_gen_reg3aaav_gen_reg3aaa -MImpJSON -N NEG_SN.json
=====
```

#### Export json:

```
/oams/CIP_LX_ORA_JB1/aaahome->aaa IMP -Uaaa -MExpJSON -o test_user.json <<-END
{"appl_user":[{"code":"aaa"}]}
END
```

```
MSG Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a
=====
```

```
/oams/CIP_LX_ORA_JB1/aaahome->aaa IMP64 -Uaaa -Paaaaaaaa -MImpJSON -Ntest_user.json
MSG AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
MSG Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a
```

```
MSG processing file: /oams/CIP_LX_ORA_JB1/aaahome/test_user.json
MSG Entity written: appl_user_preference - action: Insert - count: 2
MSG Entity written: appl_user_preference - action: Delete - count: 1
MSG Saving datadone : 2024/08/01 07:21:39.921619
SUC {"appl_user":{"code":"aaa"}}/oams/CIP_LX_ORA_JB1/aaahome->
```

```

aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa IMP -Uaaa -Paaaaaaaa -MImpJSON -N test_curr.json
MSG AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
MSG Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a

```

SUC File /oams/CIP\_LX\_ORA\_JB1/aaahome/test\_curr.json has been processed successfully

```
=====
```

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> cat instr.exp
```

```

SET DATAFORMAT DELIMITED
SET DECIMAL .
SET THOUSAND '

SET PREFIX FORMAT FORMAT
SET PREFIX LIST LIST
SET PREFIX COMMAND COMMAND
SET PREFIX ATTRIBUTE COLUMN

SET DATEFORMAT MON DD,YYYY
SET HEADER YES
SET ROWCOUNT 10

```

```

COMMAND EXPORT instrument
SEL 'code LIKE "T_AL_USD_XOM"'

```

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> cat appl_user.exp
```

```

SET DATAFORMAT DELIMITED
SET DECIMAL .
SET THOUSAND '

SET PREFIX FORMAT FORMAT
SET PREFIX LIST LIST
SET PREFIX COMMAND COMMAND
SET PREFIX ATTRIBUTE COLUMN

SET DATEFORMAT MON DD,YYYY
SET HEADER YES
SET ROWCOUNT 10

```

```

COMMAND EXPORT appl_user
SEL 'code LIKE "a*"'"

```

```
=====
```

#### **env.CIP\_LX\_ORA\_WLIB.ta packages extract #1208 Console [Jenkins] - Package extraction in json format**

```

aaa@vmlaulxora5:/oams/CIP_LX_ORA_WLIB/aaahome> aaa IMP -Uaaa -MExpJSON -o lax.json <<EOF
> {"appl_message": {"code": "PCK_GL_ACC_OWNER_ADDRS_MISSING", "nature_e": "User Message"} }
> EOF
MSG AAAHOME is /oams/CIP_LX_ORA_WLIB/aaahome
MSG Executing /oams/CIP_LX_ORA_WLIB/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a

```

```

aaa@vmlaulxora5:/oams/CIP_LX_ORA_WLIB/aaahome> cat lax.json
{
 "appl_message": {
 "code": "PCK_GL_ACC_OWNER_ADDRS_MISSING",
 "denom": "The account owner address must be given",
 "nature_e": "User Message",
 "appl_msg_text": [
 {
 "language_dict_id": "en",
 "msg_text_c": "Please enter the account owner address"
 }
]
 }
}aaa@vmlaulxora5:/oams/CIP_LX_ORA_WLIB/aaahome>

```

```
=====
```

```
aaa@vmlaulxora5:/oams/CIP_LX_ORA_WLIB/aaahome> aaa IMP -Uaaa -MExpJSON -o lax.json <<-EOF
```

```
> {"dict_screen": {"name": "PCK_GL_DX_BUY_REQ", "entity_dict_id": "pck_dx_buy_request"} }
> EOF

```

```

MSG AAAHOME is /oams/CIP_LX_ORA_WLIB/aaahome
MSG Executing /oams/CIP_LX_ORA_WLIB/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a

```

**lax.json**

```
{
 "dict_screen": {
 "name": "PCK_GL_DX_BUY_REQ",
 "entity_dict_id": "pck_dx_buy_request",
 }
}
```

```

"script_definition": [
 {
 "attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "portfolio_code"
 },
 "nature_e": "Screen Default Value",
 "rank_n": null,
 "definition_c": [
 "{Created by : KNV Date: 9th Jan 2018",
 "JIRA Ref: WSC-4748 Comment: Fees related Derivative Order Buy Request",
 "",
 "Modified by : CHR - 21.Aug.2020 - UMA/SMA Enhancement - In case of Sleeve portfolio include head portfolio id",
 "}",
 "",
 "IF(INIT(\"buy_operation\").portfolio_id.nature_e=10{Sleeve}",
 "INIT(\"buy_operation\").bo_ptf_id.code",
 "INIT(\"buy_operation\").portfolio_id.code",
 ")"
],
 "script_ent_ref_dict_id": "pck_dx_buy_request",
 "action_e": "<None>"
 },
 {
 "attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "instr_code"
 },
 "nature_e": "Screen Default Value",
 "rank_n": null,
 "definition_c": [
 "{Created by : KNV",
 "Date: 9th Jan 2018",
 "JIRA Ref: WSC-4748",
 "Comment: Fees related Derivative Order Buy Request}",
 "",
 "INIT(\"buy_operation\").instr_id.code"
],
 "script_ent_ref_dict_id": "pck_dx_buy_request",
 "action_e": "<None>"
 },
 {
 "attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "op_currency_code"
 },
 "nature_e": "Screen Default Value",
 "rank_n": null,
 "definition_c": [
 "{Created by : KNV",
 "Date: 9th Jan 2018",
 "JIRA Ref: WSC-4748",
 "Comment: Fees related Derivative Order Buy Request}",
 "",
 "INIT(\"buy_operation\").op_currency_id.code"
],
 "script_ent_ref_dict_id": "pck_dx_buy_request",
 "action_e": "<None>"
 },
 {
 "attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "third_code"
 },
 "nature_e": "Screen Default Value",
 "rank_n": null,
 "definition_c": [
 "{Created by : KNV",
 "Date: 9th Jan 2018",
 "JIRA Ref: WSC-4748",
 "Comment: Fees related Derivative Order Buy Request}",
 "",
 "INIT(\"buy_operation\").portfolio_id.third_id.code"
],
 "script_ent_ref_dict_id": "pck_dx_buy_request",
 "action_e": "<None>"
 },
 {
 "attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "contract_master_c"
 },
 "nature_e": "Screen Default Value",
 }
]

```

```

"rank_n": null,
"definition_c": [
 "{Created by : KNV",
 "Date: 9th Jan 2018",
 "JIRA Ref: WSC-4748",
 "Comment: Fees related Derivative Order Buy Request}",
 "",
 "INIT(\"buy_operation\").instr_id.contract_master_c"
],
"script_ent_ref_dict_id": "pck_dx_buy_request",
"action_e": "<None>"
},
{
"attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "option_class_e"
},
},
...
...
"nature_e": "Screen Default Value",
"rank_n": null,
"definition_c": [
 "{ Creator : KNV - 06 Feb 2018 for WSC-4748 (Release 18.01). Reference to the manager who is at the origin of the operation.",
 "",
 "}",
 "",
 "",
 "",
 "USER().manager_id.code"
],
"script_ent_ref_dict_id": "pck_dx_buy_request",
"action_e": "<None>"
},
{
"attribute_dict_id": {
 "entity_dict_id": "pck_dx_buy_request",
 "sqlname_c": "tech_bouser_code"
},
"nature_e": "Screen Default Value",
"rank_n": null,
"definition_c": [
 "{ Creator : SUC - 16 Feb 2018 for WSC-3761 (Release 18.01). Reference to the technical user to connect to Back-office",
 "}",
 "",
 "",
 "\TECHBOUSER\""
],
"script_ent_ref_dict_id": "pck_dx_buy_request",
"action_e": "<None>"
}
]
}
}
=====
aaa@vmlaulxora5:/oams/CIP_LX_ORA_WLIB/aaahome> export_package.sh PCK_GL_ 'PCK_GL_AR_BATCH*'
building & exporting PCK_GL_ with pattern PCK_GL_AR_BATCH* ...
/oams/CIP_LX_ORA_WLIB/aaahome/aaa sql -Uaaa

```

| param_name                          | datatype      | value |
|-------------------------------------|---------------|-------|
| report_name                         | entity_sqname |       |
| sequence_no                         |               |       |
| -----                               |               |       |
| -----                               |               |       |
| -----                               |               |       |
| Number of Added Package Composition |               | 9 1   |
| NULL                                | NULL          | NULL  |
| NULL                                |               |       |
| -----                               |               |       |
| -----                               |               |       |
| -----                               |               |       |

(1 row affected)  
{return status = 0}  
AAAHOME is /oams/CIP\_LX\_ORA\_WLIB/aaahome  
Executing /oams/CIP\_LX\_ORA\_WLIB/aaahome/bin/Linux/aaa\_package\_extractor.sh -p

Start the package extraction process for package PCK\_GL\_ with version 1.0.0

Extracting Entity=format

Creating file: /oams/CIP\_LX\_ORA\_WLIB/aaahome/pck/std/PCK\_GL\_/business/format/format\_PCK\_GL\_AR\_BATCH.imp  
MSG AAAHOME is /oams/CIP\_LX\_ORA\_WLIB/aaahome  
MSG Executing /oams/CIP\_LX\_ORA\_WLIB/aaahome/bin/Linux/aaa\_imp64 -Uaaa  
REM ICU Time Zone Data Version : 2019a

MSG processing entry: { "format" : {"code": "PCK\_GL\_AR\_BATCH"}}

```

SUC creating file: /oams/CIP_LX_ORA_WLIB/aaahome/pck/std/PCK_GL_/manifest.json
MSG Load on entity dict_function - Loading all data
MSG Load on entity dict_function - Loading all data, row count: 482
MSG Load on entity dict_entity - Loading all data
MSG Load on entity dict_entity - Loading all data, row count: 1044
MSG Load on entity dict_datatype - Loading all data
MSG Load on entity dict_datatype - Loading all data, row count: 56
MSG Load on entity dict_attribute - Loading all data
MSG Load on entity dict_attribute - Loading all data, row count: 25541
SUC creating file: /oams/CIP_LX_ORA_WLIB/aaahome/pck/std/PCK_GL_/business/format/format_PCK_GL_AR_BATCH.json
MSG Done (PCK_GL_)
```

Package composition of PCK\_GL\_ with version 1.0.0 successfully extracted.

Please refer to log /oams/CIP\_LX\_ORA\_WLIB/aaahome/pck/std/log/package\_extractor\_20250221T181104.log or  
 /oams/CIP\_LX\_ORA\_WLIB/aaahome/tmp/package\_extractor/package\_extractor.log for details  
 ...done PCK\_GL\_

```
aaa@vmlaulxora5:/oams/CIP_LX_ORA_WLIB/aaahome> aaa IMP -Uaaa -MExpJSON -o lax.json <<-EOF
```

```
> { "format" : {"code": "PCK_GL_AR_BATCH"} }
> EOF
```

```
>cat lax.json
{
 "format": {
 "code": "PCK_GL_AR_BATCH",
 "name": "PCK_GL_AR_BATCH",
 "denom": "Format used when the rebalancing is launched in batch mode (Automatic Rebal.)",
 "function_dict_id": "order_entry",
 "parent_format_id": null,
 "entity_dict_id": "domain",
 "title_msg_id": null,
 "next_title_msg_id": null,
 "toc_title_msg_id": null,
 "total_title_msg_id": null,
 "matrix_title_msg_id": null,
 "matrix_grp_col_msg_id": null,
 "graph_title_msg_id": null,
 "graph_subtitle_msg_id": null,
 "graph_legend_msg_id": null,
 "report_id": null,
 "type_id": null,
 "risk_f": "No",
 "nature_e": "Detailed List",
 "break_criteria_name": null,
 "break_value_c": null,
 "filter_c": null,
 "graph_type_e": "<None>",
 "graph_view_e": "<None>",
 "overlap_n": null,
 "level_num_n": null,
 "icon_name": null,
 "max_break_n": 4,
 "justif_e": "<Default>",
 "border_thick_n": 1,
 "gray_force_n": 0,
 "gray_lines_n": 0,
 "blank_lines_n": 0,
 ...
 "column_limit_value_n": null,
 "row_limit_e": "<None>",
 "row_limit_value_n": null,
 "notepad": null,
 "format_element": [
 {
 "sqlname_c": "result",
 "rank_n": 100,
 "name": "result",
 "denom": null,
 "datatype_dict_id": "string1000_t",
 "attribute_dict_id": null,
 "header_title_msg_id": null,
 "break_title_msg_id": null,
 "curr_map_fmt_elt_id": null,
 "display_format_c": null,
 "display_column_n": 100,
 "display_row_n": null,
 "display_context_e": "<None>",
 "fixed_f": "No",
 "cons_f": "No",
 "sub_total_f": "No",
 "totaliser_c": null,
 }
]
 }
}
```

```

"sorting_rank_n": null,
"sorting_rule_e": "<None>",
"horiz_coord_n": null,
"vert_coord_n": null,
"col_width_n": 200,
"zoom_f": "No",
.....
"tsl_attribute_mapping_f": "No",
"outbox_publish_e": "None",
"script_definition": [
{
 "nature_e": "Object Definitions",
 "rank_n": null,
 "definition_c": [
 "{ Creator : CKO - 07 May 2018",
 " Modified : -",
 "",
 " Comment: Batch result details. Format used when the rebalancing is launched in batch mode",
 "}",
 "",
 "",
 "[Case 1: Only session OK created, no session KO]",
 "IF(func_result_status_e = 2 {Final} AND child_session_id.func_result_id.code=NULL",
 "",
 "PRINTF(\"Batch result on %D: %d success orders saved into session with code %s (id=%d). No failed orders.\",",
 "",
 "{Batch date}",
 "calc_from_d",
 "",
 "{Success number of orders}",
 " GET_FIRST(",
 " STAT(",
 " GET_OBJECT_ARRAY(",
 " GET_ENTITY('ext_operation\')",
 " &function_result_id=func_result_id",
 " &id)",
 ").num_record",
 " 0)",
 "",
 ")",
 ")"
],
 "script_ent_ref_dict_id": "domain",
 "action_e": "<None>"
}
],
"cell_fmt_definition": null,
"denomination": null,
"notepad": null
},
{
 "sqlname_c": "batch_d",
 "rank_n": 110,
 "name": "batch_d",
 "denom": "Date of the batch process",
 "datatype_dict_id": "date_t",
 "attribute_dict_id": null,
 "header_title_msg_id": null,
 "break_title_msg_id": null,
 "curr_map_fmt_elt_id": null,
 "display_format_c": null,
 "display_column_n": 110,
 "display_row_n": null,
 "display_context_e": "<None>",
 "fixed_f": "No",
 "cons_f": "No",
 "sub_total_f": "No",
 "totaliser_c": null,
 "sorting_rank_n": null,
 "sorting_rule_e": "<None>",
 "horiz_coord_n": null,
 "vert_coord_n": null,
 "col_width_n": 20,
.....
"outbox_publish_e": "None",
"script_definition": [
{
 "nature_e": "Object Definitions",
 "rank_n": null,
 "definition_c": [
 "{ Creator : CKO - 07 May 2018",
 " Modified : -",
 ""
]
}
]
}
]
```

```

 "",
 " Comment: Date of the rebalancing.",
 "}",
 "",
 "calc_from_d"
],
 "script_ent_ref_dict_id": "domain",
 "action_e": "<None>"
}
],
"cell_fmt_definition": null,
"denomination": null,
"notepad": null
},
{
"sqlname_c": "valid_order_n",
"rank_n": 120,
"name": "valid_order_n",
"denom": "Number of valid orders",
"datatype_dict_id": "int_t",
"attribute_dict_id": null,
"header_title_msg_id": null,
"break_title_msg_id": null,
"curr_map_fmt_elt_id": null,
"display_format_c": null,
.....
"tsl_search_e": "None",
"tsl_attribute_mapping_f": "No",
"outbox_publish_e": "None",
"script_definition": [
{
 "nature_e": "Object Definitions",
 "rank_n": null,
 "definition_c": [
 "{ Creator : CKO - 07 May 2018",
 " Modified : -",
 "",
 " Comment: Number of valid orders.",
 "}",
 "",
 "IF(func_result_status_e = 2 {Final},",
 "",
 " GET_FIRST",
 " STAT",
 " GET_OBJECT_ARRAY",
 " GET_ENTITY(\"ext_operation\"),",
 " &function_result_id=func_result_id,",
 " &id)",
 ").num_record",
 " 0",
 "",
 "[ELSE]",
 " 0",
 ""
],
 "script_ent_ref_dict_id": "domain",
.....
"rank_n": null,
"definition_c": [
 "{ Creator : CKO - 07 May 2018",
 " Modified : -",
 "",
 " Comment: Code of the failed session.",
 "}",
 "",
 "IF(func_result_status_e = 6 {Failed},",
 " {No Valid session, only the KO session}",
 " func_result_code",
 "",
 "[ELSE], IF(child_session_id.func_result_id <> NULL",
 " {Both session exists}",
 " child_session_id.func_result_code",
 "",
 ")"
],
"script_ent_ref_dict_id": "domain",
"action_e": "<None>"
}
],
"cell_fmt_definition": null,
"denomination": null,
"notepad": null
}
]

```

```

],
 "denomination": null,
 "row_fmt_definition": null,
 "reference_format_element": null,
 "parent_reference_format": null,
 "child_reference_format": null,
 "dict_function_attribute": null
 }
}
=====
aaa@vmlaulxora1:/oams/CLP_LX_ORA_JB1/aaahome> aaa IMP -Uaaa -MExpJSON -o lax.json<<-EOF
{"portfolio":{"code":"T_AI_AC_PTF1"}}
EOF

```

Content of **lax.json**:

```
{
 "portfolio": {
 "code": "T_AI_AC_PTF1",
 "name": "N_AI_AC_PTF1.....end",
 "denom": "D_AI_AC_PTF1.....end",
 "currency_id": "EUR",
 "sys_currency_id": "EUR",
 "old_currency_id": null,
 "type_id": "T_AI_PTF_type1",
 "third_id": "T_AI_Client2",
 "comm_mgr_id": "T_AI_Manager2",
 "admin_mgr_id": "T_AI_Manager2",
 "bal_pos_rule_set_id": null,
 "parent_port_id": null,
 "language_dict_id": "en",
 "exch_val_rule_id": null,
 "quote_val_rule_id": null,
 "book_val_rule_id": null,
 "instr_lend_val_rule_id": null,
 "curr_lend_val_rule_id": null,
 ...
 ...
 "ud_tinyint_ti": null,
 "ud_type_id_id": null,
 "synonym": null,
 "denomination": null,
 "notepad": null,
 "port_chrono": null,
 "pay_instruction": [
 {
 "acc_instr_id": "T_AI_CHF_AC_PTF1",
 "currency_id": "CHF",
 "oper_type_id": null,
 "oper_subtype_id": null,
 "oper_nat_e": "<All>"
 },
 {
 "acc_instr_id": "T_AI_EUR_AC_PTF1",
 "currency_id": "EUR",
 "oper_type_id": null,
 "oper_subtype_id": null,
 "oper_nat_e": "<All>"
 },
 {
 "acc_instr_id": "T_AI_GBP_AC_PTF1",
 "currency_id": "GBP",
 "oper_type_id": null,
 "oper_subtype_id": null,
 "oper_nat_e": "<All>"
 },
 ...
 ...
 {
 "acc_instr_id": "T_AI_USD_AC_PTF1",
 "currency_id": "USD",
 "oper_type_id": null,
 "oper_subtype_id": null,
 "oper_nat_e": "<All>"
 }
],
 "port_pos_set": null,
 "fund_weight": null,
 "portfolio_third_compo": null,
 "return_grid_link": null,
 "model_constraint": [
 {
 "nature_e": "Allocation",

```

```

"begin_d": "2002-01-01T00:00:00",
"end_d": "2004-12-31T00:00:00",
"composite_f": "ln",
"max_constrained_grid_n": null,
"round_unit_e": "<None>",
"criticalness_e": "<None>",
"type": null,
"sub_type": null,
"category_e": "<None>",
"denomination": null,
"notepad": null,
"model_constr_elt": [
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Bond"
 }
 },
 ...
 ...
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 1
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null,
 "constr_bound_curr_id": null,
 "nature_e": ">=",
 "denom": null,
 "min_weight_n": 12.00000000,
 "max_weight_n": null,
 "fixed_cell_f": "Variable",
 "constr_bound_nat_e": "Percentage",
 "trading_order_nat_e": "Buy",
 "application_field_e": "Single Instrument",
 ...
 ...
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Bond"
 },
 "ordinate_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_USD"
 },
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 1
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null,
 "constr_bound_curr_id": null,
 "nature_e": "=",
 ...
 ...
 "notepad": null
 },
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_CHIM1"
 },
 "ordinate_list_id": null,
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 21
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null,
 "constr_bound_curr_id": null,
 "nature_e": "[]",
 "denom": null,
 ...
 }
]

```

```
 "denomination": null,
 "notepad": null
 },
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Chemicals"
 },
 "ordinate_list_id": null,
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 11
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null,
 "constr_bound_curr_id": null,
 "nature_e": "<=",
 "denom": null,
 ...
 ...
 "notepad": null
 },
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Food"
 },
 "ordinate_list_id": null,
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 11
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null,
 "constr_bound_curr_id": null,
 "nature_e": "[]",
 ...
 ...
 "denomination": null,
 "notepad": null
 },
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Stock"
 },
 "ordinate_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_CHF"
 },
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 1
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null,
 ...
 ...
 {
 "nature_e": "Allocation",
 "begin_d": "2006-01-01T00:00:00",
 "end_d": null,
 "composite_f": "In",
 "max_constrained_grid_n": null,
 "round_unit_e": "<None>",
 "criticalness_e": "<None>",
 "type": null,
 "sub_type": null,
 "category_e": "<None>",
 "denomination": null,
 "notepad": null,
 "model_constr_elt": [
 {
 "market_segment_id": {
 "grid_id": "T_AI_MS_NATCURSEC",
 "abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Food"
 },
 "ordinate_list_id": null,
 "market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 1
 }
 },
 "dim_instr_dict_id": null,
 "instr_object_id": null
 }
]
 }
 }
}
```

```

"grid_id": "T_AI_MS_NATCURSEC",
"abcissa_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_Bond"
},
"ordinate_list_id": {
 "entity_dict_id": "instrument",
 "code": "T_AI_CHF"
},
"market_structure_id": {
 "ref_grid_id": "T_AI_MS_NATCURSEC",
 "rank_n": 1
},
"dim_instr_dict_id": null,
"instr_object_id": null,
...
...
"port_link_history": null,
"portfolio_event": null,
"port_bi_value": null,
"perf_computation_period": null,
"ext_operation": [
{
 "nature_e": "Investment",
 "function_result_id": null,
 "code": "tai_ac_ptf1_op01",
 "fusion_e": "Treated",
 "type_id": null,
 "subtype_id": null,
 "market_third_id": null,
 "intermed_third_id": null,
 "manager_id": null,
 "rule_id": null,
 "val_rule_elem_id": null,
...
...
=====
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome/msg> aaa IMP -Uaaa -MExpJSON -o laxi.json <<-EOF
{"instrument":{"code":"T_AI_129_AAC"}}
EOF

```

#### Content of laxi.json

```
{
 "instrument": {
 "code": "T_AI_129_AAC",
 "name": "T_AI_129_AAC",
 "denom": "ALCATEL",
 "portfolio_id": null,
 "type_id": null,
 "subtype_id": null,
 "ref_curr_id": "EUR",
 "exer_curr_id": null,
 "risk_curr_id": "EUR",
 "risk_geo_id": null,
 "issuer_third_id": null,
...
 "ud_tinyint_ti": null,
 "ud_type_id_id": null,
 "notepad": null,
 "denomination": [
 {
 "language_dict_id": "en",
 "denom": "ALCATEL"
 },
 {
 "language_dict_id": "fr",
 "denom": "Fr ALCATEL"
 },
 {
 "language_dict_id": "de",
 "denom": "De ALCATEL"
 }
],
 "synonym": null,
 "sector_attrib": [
 {
 "codification_id": {
 "code": "MSCI",
 "entity_dict_id": "sector",
 "syn_entity_dict_id": null
 },
...
 }
]
 }
}
```

```

 "validity_d": "2000-01-01T00:00:00",
 "sector_id": {
 "code": "TECHNOLOGY",
 "codification_id": {
 "code": "MSCI",
 "entity_dict_id": "sector",
 "syn_entity_dict_id": null
 }
 },
 "external_seq_no": null
}
],
"rating_attrib": null,
.....
 "instr_mktseg_attribution": null,
 "instr_mktseg_override": null,
 "instr_curr_override": null,
 "instr_bi_value": null
}
}
=====

```

#### Exporting JSON

```

aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> aaa IMP -Uaaa -MExpJSON -o lax_dep.json <<-EOF
> {"deposit":{"code":"HLA_DEP"}}
> EOF
MSG AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
MSG Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a

```

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> cat lax_dep.json
```

```
{
 "deposit": {
 "code": "HLA_DEP",
 "name": "HLA_DEP",
 "third_id": "T_AI_Deposit",
 "sub_account_third_id": null,
 "acc_instr_id": null,
 "autocreated_f": "No",
 "ud_amount_m": null,
 "ud_code_c": null,
 "ud_date_d": null,
 "ud_datetime_d": null,
 "ud_enum_e": "Enum val 0",
 "ud_exchange_rate": null,
 "ud_flag_f": "no",
 "ud_int_i": null,
 "ud_longamount_m": null,
 "ud_name_c": null,
 "ud_note_c": null,
 "ud_number_n": null,
 "ud_percent_p": null,
 "ud_period_si": null,
 "ud_phone_c": null,
 "ud_smallint_si": null,
 "ud_sysname_c": null,
 "ud_tinyint_ti": null,
 "ud_type_id_id": null,
 "notepad": null,
 "synonym": [
 {
 "codification_id": {
 "code": "HLA_CODIF",
 "entity_dict_id": "synonym",
 "syn_entity_dict_id": "deposit"
 },
 "code": "HLA_DEP",
 "begin_d": null,
 "end_d": null,
 "active_f": "Yes",
 "syn_status_id": null,
 "priority_n": null,
 "external_seq_no": null
 }
]
 }
}
```

#### Importing JSON

```

aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> aaa IMP -Uaaa -MImpJSON -Nlax_dep.json
MSG AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
MSG Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a

```

SUC File /oams/CIP\_LX\_ORA\_JB1/aaahome/lax\_dep.json has been processed successfully  
aaa@vmlaulkora1:/oams/CIP\_LX\_ORA\_JB1/aaahome>

# gui, import forbidden or special characters

27 March 2023 11:36

```
dba.h:/* list of forbidden characters for a specified datatype */
dba.h:#define DBA_FORBIDDEN_DEFAULT "\\""
dba.h:#define DBA_FORBIDDEN_CODE "!\#%&\"();;<>?@[\\\]\^{\}\}\~"
dba.h:#define DBA_FORBIDDEN_SYSNAME "!#\%&\\"(\).;:<>?@[\\\]\^{\}\}\~ \$+-/* /* REF3231 */
dba.h:#define DBA_FORBIDDEN_SCRIPT """
dba.h:#define DBA_FORBIDDEN_PASSWORD "" /* FPL-PMSTA12879-111012 with sybase 15, only space is not accepted as password */
fmtlib01.h: FLAG_T flagAvoidRefreshLoop; /* FIH-REF10343-040604 If TRUE refresh info is forbidden */
httplib.h:#define HTTP_STATUS_FORBIDDEN 403
httplib.h: case HTTP_STATUS_FORBIDDEN: return "Forbidden";
msg.h:#define RET_GEN_ERR_OUS_ACTIVE 0x1000000C /* PMSTA-26250 - DDV - 170411 - Action forbidden because Object Update Session is in use */
olitapi.h:#define ERR_REOPEN (0x40000019L) /* Re open Context is forbidden */
permval.h: FeatureAuth_Forbidden,
```

# Sybase - Upgrade Steps

14 August 2024 14:31

<http://wikiorg.temenosgroup.com/pages/viewpage.action?pageId=26479103>

## Upgrade Tasks

- Perform full Environment Backup of the current env including the db backup
- Backup the existing Sybase directory (\$SYBASE).
- Shutdown the Backup server
- Shutdown the Sybase server
- Copy the extracted EBF directory contents to the \$SYBASE directory
- Install a new ASE 15.7 ESD2 Binaries on top of the existing ASE 15.7ESD1 binaries
- Once the installation finished
- Start Sybase ASE and Backup Server

## Post installation tasks (Run below commands)



### NOTE:

If you have modified any of the Sybase system stored procedures without Changing the names, executing some of these scripts will overwrite your modifications. In this case, you must reload the modified stored procedures after you run these scripts. Additionally, if you have changed execute permissions on or added exec\_proc audit events for any of the procedures in these scripts, you must redo the permissions and audit settings for the procedures after you run the scripts.

From <<http://wikiorg.temenosgroup.com/pages/viewpage.action?pageId=26479103>>

- Running the installmaster script

Go to script folder under \$SYBASE/ASE-15\_0/scripts

```
syntax : isql -Usa -P -S<DB_SERVER> -n -i installmaster -o /tmp/log/installmaster.log
example : $SYBASE/ASE-15_0/scripts#isql -Usa -Psybase -SSYB_D_TAP_SUN -n -i installmaster -o /oams/w_bper/sybase/current/ASE-15_0/install/installmaster.log
```

- Running the installcommit script

```
syntax : isql -Usa -P -S<DB_SERVER> -n -i installcomm > /tmp/log/installcommit.log
example : $SYBASE/ASE-15_0/scripts#isql -Usa -Psybase -SSYB_BPER -n -i installcommit > /oams/w_bper/sybase/current/ASE-15_0/install/installcommit.log
```

- Running the instmsgs.ebf script

```
syntax : isql -Usa -P -S<DB_SERVER> -n -i instmsgs.ebf > /tmp/log/instmsgs.ebf.log
example : $SYBASE/ASE-15_0/scripts#isql -Usa -Psybase -SSYB_BPER -n -i instmsgs.ebf > /oams/w_bper/sybase/current/ASE-15_0/install/instmsgs.ebf.log
```

- Running the installmodel script

```
syntax: isql -Usa -P -S<DB_SERVER> -n -i installmodel > /tmp/log/installmodel.log
example : $SYBASE/ASE-15_0/scripts#isql -Usa -Psybase -SSYB_BPER -n -i installmodel > /oams/w_bper/sybase/current/ASE-15_0/install/installmodel.log
```

## Post verification tasks

- Restart Sybase ASE and Backup Server

- Login to Sybase using "sa" user

- Execute select @@version and sp\_version

- The result should be like below:

```
isql -Usa -Psybase -w200000
1> sp_version
2> go
Script Version Status
----- -----
ODBC MDA Scripts 15.7.0.403.1011/Fri Jul 06 UTC 00:41:49 2012 Complete
OLEDB MDA Scripts 15.7.0.403.1011/Fri Jul 06 UTC 00:16:26 2012 Complete
installcommit 15.7.0/EBF 20369 SMP ESD#02 /P/Sun_svr4/OS 5.10/ase157esd2/3109/64-bit/OPT/Sat Jul 7 02:17:18 2012 Complete
installjdbc jConnect (TM) for JDBC(TM)/7.07 ESD #4 (Build 26793)/P/EBF20302/JDK 1.6.0/jdbcmain/OPT/Thu Jul 5 22:08:44 PDT 2012 Complete
installmaster 15.7.0/EBF 20369 SMP ESD#02 /P/Sun_svr4/OS 5.10/ase157esd2/3109/64-bit/OPT/Sat Jul 7 02:17:18 2012 Complete
installmodel 15.7.0/EBF 20369 SMP ESD#02 /P/Sun_svr4/OS 5.10/ase157esd2/3109/64-bit/OPT/Sat Jul 7 02:17:18 2012 Complete
montables 15.7.0/20369/P/Sun_svr4/OS 5.10/ase157esd2/3109/64-bit/OPT/Sat Jul 07 00:46:41 2012 Complete
(7 rows affected)
(return status = 0)
1> select @@version
2> go
```

From <<http://wikiorg.temenosgroup.com/pages/viewpage.action?pageId=26479103>>

=====

<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase15.5-ESD1+to+15.5ESD3>

# Overview

The goal of this page is to describe how to upgrade the current R11 environments dataservers from Sybase 15.5ESD#1 to Sybase 15.5ESD#3.

Jira tasks will be created to split this upgrade per \$SYBASE.

The dataservers share several environments, but moreover the \$SYBASE could be shared between several dataservers.

Therefore we have to upgrade all the dataservers linked to 1 \$SYBASE simultaneously.

**laurs55b: soft under /oams/shared/sybase/15.5**

See ENV-2786

Impacted dataservers&environments:

- S\_4K\_155\_RS55B\_LID: d\_tap\_dvp, d\_tap\_beta, d\_tap\_int
- SYB\_D\_TAP\_AIX: d\_tap\_aix

**lausum4i: soft under :/oams/shared/sybase/15.5**

See ENV-2787

Impacted dataservers&environments:

- S\_4K\_155\_SUM4I\_LID: d\_tap\_demo, d\_tap\_dvp2, d\_tap\_mig, d\_tap\_ict
- S\_4K\_155\_SUM4I\_UNI\_LID: d\_tap\_ts1
- S\_8K\_155\_SUM4I\_UNI\_LID: d\_tap\_int2
- SYB\_D\_TAP\_SUN: d\_tap\_sun

**vmdevwin2008:soft under :c:/oams/shared/sybase\15.5**

See ENV-2788

Impacted dataservers&environments:

- SYB\_D\_TAP\_WIN: Windows c:\oams\shared

**laurs55g: soft under :/oams/shared/sybase/15.5**

See ENV-2789

Impacted dataservers&environments:

- S\_4K\_155\_RS55G\_LID: d\_tap\_mig2
- S\_8K\_155\_RS55G\_LID: d\_tap\_dvp\_8K

Please note that the CDM team is using a Sybase 15.0.3 (env name = D\_TA\_CDM, datserver is S\_4K\_153\_RS55G). Therefore this environment is not taken into account.

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase15.5-ESD1+to+15.5ESD3>>

## Step List

- Make sure that you have all softwares required (EBF distribution, correct OS and 32/64 bits).  
Info: EBF can be found under [/oams.com\Software\ThirdPartyProducts\Sybase\15.5\EBFs\ESD#3](#)
- Make distributin directory "ESD3\_Distribution" under /oams/shared/sybase
- Untar the tar file
- Check the version of the impacted dataservers  
`select @@version  
or $SYBASE/$SYBASE_ASE/bin/dataserver -v`
- Backup the environment
- Backup the whole sybase directory including dbdevices directory
- Create the temporary directory and extract the distribution into it
- Stop the environments, including the backup server and datserver

Please stop the servers using the following commands

```
isql -Usa -P<password>
shutdown SYB_BACKUP
go
```

```
shutdown
go
```

**NOTE: If there are other dataservers(sybase) 8K/4K running in parallel stop those too**

- Now launch ./setup.bin (set DISPLAY environment variable if necessary) from /oams/shared/sybase/ESD3\_Distribution/<file name> or launch: ./setup.bin -i console
- Questions during the installation script execution (please fill in the list below):  
type of install: choose "full" (This may not show in ESD#3 upgrade)
- Once the installation is complete then
- Start the datserver then Backup too

**NOTE: If there are other dataservers running then start them too**

- Then launch:

```
isql -Usa -P<sa password> -S<server name> -n -i$SYBASE/$SYBASE_ASE/scripts/installmaster -o$SYBASE/$SYBASE_ASE/scripts/installmaster.155esd3.ebf<...>.log
```

```
isql -Usa -P<sa password> -S<server name> -n -i$SYBASE/$SYBASE_ASE/scripts/instrmsgs.ebf -o$SYBASE/$SYBASE_ASE/scripts/installmsgs.155esd3.ebf<...>.log
```

- Check the logs for errors better approach is to tail -f the logs when executing the commands  
Here \$SYBASE\_ASE=ASE-15\_0
- Now update the <DSQUERY NAME>.cfg file and copy it under \$SYBASE/\$SYBASE\_ASE  
/oams/shared/sybase/15.0.3ESD3/ASE-15\_0 (this path may change)

#### NOTE:

- As we do not use anymore the two-phase commit in R11, there is NO need to launch the script installcommit
- As we do not use the Sybase audit feature in R11, there is NO need to launch the script installsecurity
- As we do not use the Sybase HA (High Availability) in R11, there is NO need to launch the script installhasvss
- As we do not use real time data service in R11, there is NO need to launch the script installmsgvss

#### Validation:

- Log into sybase and execute  
`select @@version`  
or  
`$SYBASE/$SYBASE_ASE/bin/dataserver -v`
- Stop all, then restart Sybase by using the : manage\_srv START ALL (located under /nas/softlib/[EnvTeam]/tools)
- Start the whole environment (not only Sybase, but also if applicable: Actuate, Popchart, TA servers, and OCS)
- update the relevant wiki page on R11 environment information
- Inform people (cc: our team)

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase15.5-ESD1+to+15.5ESD3>>

=====

<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase15.0.3-ESD1+to+ESD3>

## How to Upgrade Sybase15.0.3-ESD1 to ESD3

- Added by [Muhammad Sajjad](#), last edited by [Sujoy Roy](#) on 2011-08-02 ([view change](#))

## Please Note:This page is only for Internal Environments

### Pre Installation Tasks

1. To change ports

Please stop the servers using the following commands

```
isql -Usa -P<password>
shutdown SYB_BACKUP
go

shutdown
go
please enter new ports in $SYBASE/interfaces file
```

**NOTE:** Make sure to verify if there are other Sybase servers running in the same host

e.g if 4K/8K is running in parallel then we need to stop all of them before proceeding with the installation

### Installation

1. EBF17156\_Sparc64.tar
2. tar -xvf EBF17156\_Sparc64.tar
3. cd ebf17156
4. run setup file

### Post Installation

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase15.0.3-ESD1+to+ESD3>>

```
cd $SYBASE/scripts
.installmaster
.installmessages
```

#### Validation

- If Servers are not running please use the following commands to run the servers  
`cd $SYBASE/install`
  - RUN\_<DSQUERY>
  - RUN\_<DSQUERY>\_BS

- To check the version of Sybase
 

```
isql -Usa -Psybase
select @@version
select @@maxpagesize
```

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase15.0.3-ESD1+to+ESD3>>

---

## Upgrade Overview

- Install new Sybase ASE 15.7 ESD1 Binaries
- Build new blank ASE 15.7 ESD1 dataserver with the same name as the existing server name
- Have the same setup (configuration options and databases) and also include 15.7 standards
- Bcp out syslogins, sysloginroles and sysservers from 15.0.3
- Dump the user databases from 15.0.3 Source unix host
- Bcp in ( if there are new columns, and in such case, you will have to add 1 or several "tab" at the end of each line of the file)
- Launch the \$AAA\_ADMIN\_DIR/scripts/gen\_syase\_info.sh on the source environment to generate the 2 scripts to create the devices and the databases
- Execute these 2 scripts on the new dataserver
- Load user databases
- Application test connectivity and performance in ASE 15.7 ESD1

## Upgrade Tasks

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase+ASE+15.0.3ESD4+to+Sybase+ASE+15.7>>

- Perform full Environment Backup of the current env including the db backup
- Bcp out syslogins, sysloginroles and sysrvroles sysservers from current Sybase data server 15.0.3
- Launch the \$AAA\_ADMIN\_DIR/scripts/gen\_syase\_info.sh on the source environment to generate the 2 scripts disk\_init.sql and create\_db.sql to create the devices and the databases  
For Eg:  

```
bcp master..syslogins out syslogins.txt -S<sybase_server_name> -Usa -t"|" -c
bcp master..sysservers out sysservers.txt -S<sybase_server_name> -Usa -t"|" -c
bcp master..sysloginroles out sysloginroles.txt -S<sybase_server_name> -Usa -t"|" -c
```
- Stop the current Sybase data server 15.0.3
- Install a new ASE 15.7 ESD1 Binaries use the wiki <http://wiki.oams.com/display/ARCH/Sybase+15.7+deployment>
- Create a soft link to the sybase home directory
- Build new blank ASE 15.7 ESD1 dataserver with the same name as the existing server
- Configure the dataserver as 15.7 configuration use the wiki <http://wiki.oams.com/display/ARCH/Sybase+dataserver+configuration>
- Disk initialization by using the out out file (disk\_init.sql) from gen\_syase\_info.sh
- Create database by using the out out file (create\_db.sql) from gen\_syase\_info.sh
- Perform Bcp in syslogins, sysloginroles and sysservers



### NOTE:

There are two new columns in SYBASE 15.7 syslogins , And we have to add 2 "tab" at the end of each line of the syslogin bcp out file  
Please use below query to find out "How amny columns in a table

select count



from syscolumns where id in(select id from sysobjects where name='sysservers')

BCP in Eg:

```
bcp master..syslogins in syslogins.txt -Y -S<sybase_server_name> -Usa -t"|" -c
bcp master..sysservers in sysservers.txt -Y -S<sybase_server_name> -Usa -t"|" -c
bcp master..sysloginroles in sysservers.txt -Y -S<sybase_server_name> -Usa -t"|" -c
```

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase+ASE+15.0.3ESD4+to+Sybase+ASE+15.7>>

- Load all the user databases by using **load database** command
 

```
load database d_tap_mig3_aaarepb from 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaarepb.dmp'
go
load database d_tap_mig3_aaalogindb from 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaalogindb.dmp'
go
load database d_tap_mig3_aaamaindb from 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaamaindb.1.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaamaindb.2.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaamaindb.3.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaamaindb.4.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaamaindb.5.dmp'
go
load database d_tap_mig3_tspermdb from 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaatsldb.1.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaatsldb.2.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaatsldb.3.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaatsldb.4.dmp'
stripe on 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaatsldb.5.dmp'
go
load database d_tap_mig3_tsldtempdb from 'compress::1::/oams/d_tap_mig3/Backup_Af_4.40SP6/dump_new/data_extracted/aaatmptslbd.dmp'
go'
```
- Set the database options as same as old server by using **sp\_dboption** procedure
- You may get some issues while connecting to the database using the user <env\_name>aaa , in such case plase compare suid fromsysusers and syslogins.
- Please use this query to compare the suid's **select suid from master.syslogins where name = "d\_tap\_mig3aaa"** and **select \* FROM sysusers where name = "dbo"**
- If it is not matching Update the sysusers using query **update sysusers set suid = (select suid from syslogins where name = "d\_tap\_mig3aaa")and name = "dbo"**

- Test Database connectivity
- Restart Sybase and TA
- Test Application connectivity
- Run TA valuation
- Perform a Full Env backup

From <<http://wikiorg.temenosgroup.com/display/ARCH/How+to+Upgrade+Sybase+ASE+15.0.3ESD4+to+Sybase+ASE+15.7>>

# Passing Array c++ reference to Function

26 August 2022 10:39

## Passing C++ arrays to function by reference

Question | Nov 19, 2015 | [nextptr](#)



[c++ c++11 array reference pointer](#)

### Background

In C++, a talk of passing arrays to functions is estranged by the generally held perception that arrays in C++ are always passed by reference. What makes this subject so interesting is to do with the way C++ compiles the array function parameters. By array, we mean the C-style or regular array here, not the C++11 `std::array<T, size_t>`. The difference is important and would be apparent later in the article.

These are the standard ways to pass regular C-style arrays to functions:

```
void Foo(char *array, size_t len);
void Foo(char array[], size_t len);
//void Foo(char array[5], size_t len); //Dimension size is ignored
```

In all the above three cases, the array parameter does not have the size and dimension information of the passed argument. You cannot get the size of the array within `Foo` by merely calling `sizeof(array)`, because a passed array argument to `Foo` is decayed to a pointer. Therefore, `sizeof(array)` would return the size of a `char` pointer. Accordingly, the functions that take array parameters, ordinarily, also have an explicit length parameter because array parameters do not have the implicit size information. Here is one implementation of `Foo` that we would use for comparison later:

```
void Foo(char array[], size_t len) {
 for(size_t i=0; i < len; i++) {
 std::cout << array[i] << "\n";
 }
}
int main() {
 char arr[5] = {'A','B','C','D','E'};
 //Call Foo
 Foo(arr, 5); //Explicit length passed
 return 0;
}
```

### Array References

There are numerous disadvantages in treating arrays as pointers. For one, it is often necessary to null-check pointers for safety protocols. Also, as pointers do not have array dimension information, they are not compatible with the modern C++ features like the `range-based-for` loop.

Nevertheless, in C++, there is a lesser-known syntax to declare a reference to an array:

```
//'array' is a reference to char [5]
char (&array) [5];
```

And a function can be declared to take a reference to an array parameter, as follows:

```
void Foo(char (&array)[5]);
```

Passing an array to a function that takes an array by reference does not decay the array to a pointer and preserves the array size information. Moreover, we can create aliases to arrays to make their references more palatable. Here is a function that takes a 5-char array by reference with a dandy range-based-for loop:

```
//Alias of a char[5]
using FiveCharCode = char[5];
//'code' is a char(&)[5]
void Bar(const FiveCharCode& code) {
 for(char c : code) { //range-based-for loop works
 std::cout << c << "\n";
 }
}
int main() {
 char code[5] = {'A','B','C','D','E'};
 //Call Bar
 Bar(code); //No explicit length passed
 return 0;
}
```

Array references open up a few other exciting possibilities. For instance, the function template below can also be called on a standard array besides an STL container. Additionally, the use of templates can even avoid the unsightly array reference syntax and make the code work for any array size:

```
template<typename _Ret, typename _Coll> //Return type
 _Ret Sum(_Coll& c) {
 _Ret sum = 0;
 for(auto& v : c)
 sum += v;
 return sum;
}
int main() {
 //With regular array. Passed as reference
 int arr[] = {1,2,3,4,5};
 std::cout << Sum<int64_t>(arr) << "\n"; //15
 //With vector
 std::vector<int> vec = {1,2,3,4,5};
 std::cout << Sum<int64_t>(vec) << "\n"; //15
 return 0;
}
```

### A Question

Let's take another example of passing an array by reference. A function template, `Increment`, takes an array of bytes (`unsigned char`) by reference and increments all the bytes in it. `Increment` works with a byte array of any length:

```
template<typename ByteArray>
void Increment(ByteArray& a) {
 //increment all bytes in array 'a'
 for(auto& b : a)
 b++;
}
```

We call `Increment` on a local `int` variable by casting it to a 4-byte array reference and then print the variable, as follows:

```
int main() {
```

```

unsigned int a = 0x01010101;
//Casting int to 'unsigned char' array reference.
Increment((unsigned char(&)[4])a);
//Print int in hex format.
//Specify width-8 padded with 0 for leading 0.
std::printf("0x%08x\n", a);
return 0;
}

```

What do you think the output/outcome of the above? Select the correct answer below (check [Explanations](#) for details on the answer):

0x01010101  
0x02020202  
A compilation error  
A run time exception

[Submit](#) 20

[Explanations](#) 1

## std::array and Closing Words

In this article, we described the references to C-style arrays and why they might be better than pointers in some situations. For the same reasons as described above, the C++11 introduced an array wrapper type `std::array<T, size_t>`. An `std::array` instance encloses a C-style array and provides an interface to query the size, along with some other standard container interfaces. `std::array` can be passed by reference, and because it is a `struct`, it is possible even to pass it by value too:

```

#ifndef include <array>
//Get std::array by ref
void
ProcessRef(const std::array<int, 5>& arr) {
 for(auto v : arr)
 std::cout << v << "\n";
 //OR
 for(size_t i = 0; i < arr.size(); i++)
 std::cout << arr[i] << "\n";
}
//Get std::array by value
void
ProcessValue(std::array<int, 5> arr) {
 //modify the elements of local arr
 for(auto& v : arr)
 v++;
 for(size_t i = 0; i < arr.size(); i++)
 std::cout << arr[i] << "\n";
}
int main() {
 std::array<int, 5> arr = {1,2,3,4,5};
 ProcessRef(arr); //Passes ref
 ProcessValue(arr); //Passes a copy of arr
 return 0;
}

```

We should prefer `std::array` over regular C-style arrays wherever possible. However, given the massive existing C++ codebases and the established proclivities in the sub conscious of developers, it would be naive to assume that the use of C-style arrays is going to disappear anytime soon. Nonetheless, for whatever reasons, intellectual curiosity or practical, understanding of array references is essential for C++ programmers.

## Further Reading

[std::array - cplusplus.com](#)  
8  
2

### Comments

- [muluskan](#). Mar 18, 2021 @10:59 PM  
Is it required to use "auto&" to iterate over references or just use "auto"?  
void f2(const vector<string>& vs) // Vector of some strings  
{  
 for (auto& s : vs)  
 cout << s << '\n';
}
- [jmiller](#). Mar 19, 2021 @7:35 AM  
@muluskan Yes you have to use 'auto&'. When deducing type for 'auto', compiler strips off cv-qualifies and &/&&. For example:  
const std::string& name();  
auto n = name();  
'n' is std::string not 'const std::string&'

From <<https://www.nextptr.com/question/a6212599/passing-cplusplus-arrays-to-function-by-reference>>

=====

[Working example](#)

```

using FiveCharCode = char[5];
void array_ref(FiveCharCode &code)
{
 for (auto & c : code)
 {
 std::cout << c << "\n";
 }
}
void call_arr()
{
 char arr[5] = { 'a', 'b', 'c', 'd', 'e' };
 array_ref(arr);
}
=====
void array_ref(char (&code)[5])

```

```
{
 for (auto & c : code)
 {
 std::cout << c << "\n";
 }
}
void call_arr()
{
 char arr[5] = { 'a', 'b', 'c', 'd', 'e' };
 array_ref(arr);
}
```

## Performance Tracing

Thursday, April 30, 2020 9:22 AM

### Creation of the explain plan tables

[http://www.dba-oracle.com/plsql/t\\_plsql\\_plans.htm](http://www.dba-oracle.com/plsql/t_plsql_plans.htm)  
[http://www.dba-oracle.com/t\\_OracleAutotrace.htm](http://www.dba-oracle.com/t_OracleAutotrace.htm)

PMSTA-36340

1. Collect the logs (TA Core, OCS) – Client is uploading via SAFE-T
1. Execute a C program to benchmark production and test environment. However, we don't have gcc compiler in the client prod/test environment. It is difficult for them to install the gcc in production now. Any other ideas ?
1. Execute opti\_stat but, same issue.. doesn't have privileged user .. so waiting for the access
1. Set up opti\_profile on fin serves based on latest opti\_stat findings
1. Ideally 1 profile should be defined from precomp/nigh-natch jobs and another for online activity
1. Restart is mandatory to change opti\_profile and anyhow it's highly recommended to restart fin servers after night batch and before online activity
2. Setup and/or monitor memory usage on machine hosting the fin servers. Search for swapping issue
3. Run reference use-cases on well-known portfolio (i.e: 67338\_PBSG) on UAT and PROD at different point of time while having enabled all usual tracing

```
#EXEC setenv 'AAALOCALCACHETRACE', '1'
go
```

AAASQLTRACE=3

AAASQLTRACEPARAM=1

AAASQLTRACEFMT=1

AAAPERFMON=1

AAATIMERMASK=1

AAALOCALCACHETRACE=1

AAATRACEDOMAIN=1

- 1.. Add technical indexes to the import file so that becomes part of deployment
2. Identify if DSP2 is really used, if not disable
3. Identify if multi tasc login is really used, if not disable
4. Check Tech indexes on sys\_op\_map\_non\_null
5. Gather stats
6. OCS parallel processing threading configuration review

```
stackProf.sh
#/bin/sh

proc_id=$1
dmp_file=${AAAHOME}/msg/${proc_id}.trc

echo "Start Stack Trace for PID ${proc_id} $(date +'%d-%m-%Y %H:%M:%S:%8N')" >> ${dmp_file}

iter=0
while true
do

echo "$(date +'%d-%m-%Y %H:%M:%S:%8N') #####Running with iteration no $iter"
echo "$(date +'%d-%m-%Y %H:%M:%S:%8N') #####Running with iteration no $iter" >> ${dmp_file}

pocstack ${proc_id} >> ${dmp_file}
iter=$((iter+1))

#sleep 2
done

echo "Exit Stack Trace for PID ${proc_id} $(date +'%d-%m-%Y %H:%M:%S:%8N')" >> ${dmp_file}
```

# wget - downloading distribution

13 July 2023 16:39

wget

```
https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/27.0.06/disk1/runtime/wars/FOPM.war --no-check-certificate --user=laxmishhegde --ask-password
```

```
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/ocs/current/admin> mpt
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo> cd new_wsc/
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> ls -ltr
total 364800
-rw-rw-r-- 1 css oinstall 9902080 Jul 11 15:12 pck_dataset.tar
-rw-rw-r-- 1 css oinstall 71133104 Jul 11 15:13 TCIBInstaller.jar
-rw-rw-r-- 1 css oinstall 292501190 Jul 11 15:13 FOPM.war
-rw-rw-r-- 1 css oinstall 9118 Jul 11 21:20 install.properties
drwxrwxr-x 2 css oinstall 53 Jul 11 21:20 logs/
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> rm TCIBInstaller.jar
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> rm FOPM.war
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> wget https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/TCIBInstaller.jar
--2023-07-13 13:17:12-- https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/TCIBInstaller.jar
Resolving wealth.temenosgroup.com (wealth.temenosgroup.com)... 10.20.51.134
Connecting to wealth.temenosgroup.com (wealth.temenosgroup.com)|10.20.51.134|:443... connected.
ERROR: cannot verify wealth.temenosgroup.com's certificate, issued by '/DC=com/DC=temenosgroup/CN=Temenos Issuing CA 2':
 Self-signed certificate encountered.
To connect to wealth.temenosgroup.com insecurely, use '--no-check-certificate'.
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> wget https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/TCIBInstaller.jar
--no-check-certificate --user=shreyash --ask-password
Password for user 'shreyash':
--2023-07-13 13:17:33-- https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/TCIBInstaller.jar
Resolving wealth.temenosgroup.com (wealth.temenosgroup.com)... 10.20.51.134
Connecting to wealth.temenosgroup.com (wealth.temenosgroup.com)|10.20.51.134|:443... connected.
WARNING: cannot verify wealth.temenosgroup.com's certificate, issued by '/DC=com/DC=temenosgroup/CN=Temenos Issuing CA 2':
 Self-signed certificate encountered.
HTTP request sent, awaiting response... 401 Unauthorized
Reusing existing connection to wealth.temenosgroup.com:443.
HTTP request sent, awaiting response... 200 OK
Length: 71133105 (68M) [application/java-archive]
Saving to: 'TCIBInstaller.jar' I

100%[=====] 71,133,105 425KB/s in 82s
```

```
to connect to wealth.temenosgroup.com insecurely, use '--no-check-certificate'.
css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> wget https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/TCIBInstaller.jar
--no-check-certificate --user=shreyash --ask-password
Password for user 'shreyash':
--2023-07-13 13:17:33-- https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/TCIBInstaller.jar
Resolving wealth.temenosgroup.com (wealth.temenosgroup.com)... 10.20.51.134
Connecting to wealth.temenosgroup.com (wealth.temenosgroup.com)|10.20.51.134|:443... connected.
ERROR: cannot verify wealth.temenosgroup.com's certificate, issued by '/DC=com/DC=temenosgroup/CN=Temenos Issuing CA 2':
 Self-signed certificate encountered.
HTTP request sent, awaiting response... 401 Unauthorized
Reusing existing connection to wealth.temenosgroup.com:443.
HTTP request sent, awaiting response... 200 OK
Length: 71133105 (68M) [application/java-archive]
Saving to: 'TCIBInstaller.jar'

100%[=====] 71,133,105 425KB/s in 82s

2023-07-13 13:18:57 (842 KB/s) - 'TCIBInstaller.jar' saved [71133105/71133105]

css@maa2taplx2.temenosgroup.com:/oams/int_scb_demo/new_wsc> wget https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/runtime/wars/FOPM.war
--no-check-certificate --user=shreyash --ask-password
Password for user 'shreyash':
--2023-07-13 13:19:14-- https://wealth.temenosgroup.com/delivery/incoming_packages/WSC/DEV.0.0/disk1/runtime/wars/FOPM.war
Resolving wealth.temenosgroup.com (wealth.temenosgroup.com)... 10.20.51.134
Connecting to wealth.temenosgroup.com (wealth.temenosgroup.com)|10.20.51.134|:443... connected.
ERROR: cannot verify wealth.temenosgroup.com's certificate, issued by '/DC=com/DC=temenosgroup/CN=Temenos Issuing CA 2':
 Self-signed certificate encountered.
HTTP request sent, awaiting response... 401 Unauthorized
Reusing existing connection to wealth.temenosgroup.com:443.
HTTP request sent, awaiting response... 200 OK
Length: 292522940 (279M)
Saving to: 'FOPM.war'

14% [=====>] 42,278,912 684KB/s eta 4m 46s
```

## tasc Job (precomp) and technical & meta-dictionary tables

13 July 2023 22:17

```
this->m_parentContext->m_migSkippedEntities.insert("dict_user");
this->m_parentContext->m_migSkippedEntities.insert("dict_depends");
this->m_parentContext->m_migSkippedEntities.insert("dict_sproc");
this->m_parentContext->m_migSkippedEntities.insert("dict_sproc_param");
this->m_parentContext->m_migSkippedEntities.insert("dict_sproc_returns");
this->m_parentContext->m_migSkippedEntities.insert("dict_view");
this->m_parentContext->m_migSkippedEntities.insert("dict_database");
this->m_parentContext->m_migSkippedEntities.insert("dict_segment");
this->m_parentContext->m_migSkippedEntities.insert("dict_datatype");
this->m_parentContext->m_migSkippedEntities.insert("dict_entity_constraints");
this->m_parentContext->m_migSkippedEntities.insert("table_modif_stat");
this->m_parentContext->m_migSkippedEntities.insert("dict_label");
this->m_parentContext->m_migSkippedEntities.insert("object_modif_stat");
this->m_parentContext->m_migSkippedEntities.insert("xd_entity_feature");
this->m_parentContext->m_migSkippedEntities.insert("xd_attribute_custo");
this->m_parentContext->m_migSkippedEntities.insert("dict_criteria");
this->m_parentContext->m_migSkippedEntities.insert("dict_entity");
this->m_parentContext->m_migSkippedEntities.insert("dict_attribute");

this->m_parentContext->m_migSkippedEntities.insert("tasc_job");
this->m_parentContext->m_migSkippedEntities.insert("tasc_job_table");
this->m_parentContext->m_migSkippedEntities.insert("tasc_prec_execution");
this->m_parentContext->m_migSkippedEntities.insert("tasc_prec_job");
this->m_parentContext->m_migSkippedEntities.insert("tasc_prec_modif_stat");
this->m_parentContext->m_migSkippedEntities.insert("tasc_prec_param");
this->m_parentContext->m_migSkippedEntities.insert("tasc_logger");
this->m_parentContext->m_migSkippedEntities.insert("tasc_validity");
this->m_parentContext->m_migSkippedEntities.insert("tasc_invalidation");
this->m_parentContext->m_migSkippedEntities.insert("tasc_global_recomp_obj");
this->m_parentContext->m_migSkippedEntities.insert("tasc_entity_recomp_obj");
this->m_parentContext->m_migSkippedEntities.insert("tasc_search_recomp_obj");

this->m_parentContext->m_migSkippedEntities.insert("jobl_event");
this->m_parentContext->m_migSkippedEntities.insert("jobl_job_instance");
this->m_parentContext->m_migSkippedEntities.insert("jobl_job_chunk");
this->m_parentContext->m_migSkippedEntities.insert("jobl_job_instance_params");
this->m_parentContext->m_migSkippedEntities.insert("jobl_step");
this->m_parentContext->m_migSkippedEntities.insert("otf_monitoring");
this->m_parentContext->m_migSkippedEntities.insert("jobl_id");
this->m_parentContext->m_migSkippedEntities.insert("tsl_table_cache");
this->m_parentContext->m_migSkippedEntities.insert("tasc_irl_recomp_obj");

this->m_parentContext->m_migSkippedEntities.insert("instrument_recomm_level");
this->m_parentContext->m_migSkippedEntities.insert("event");

this->m_parentContext->m_migSkippedEntities.insert("appl_session");
this->m_parentContext->m_migSkippedEntities.insert("appl_session_histo");

this->m_parentContext->m_migSkippedEntities.insert("login_history");
this->m_parentContext->m_migSkippedEntities.insert("login_failed");

this->m_parentContext->m_migSkippedEntities.insert("server_running");
this->m_parentContext->m_migSkippedEntities.insert("server_pool_compo");

INFO: Summary Entity written: dict_attribute - action: Update - count: 25188
INFO: Summary Entity written: dict_criteria - action: Insert - count: 4474
INFO: Summary Entity written: dict_entity - action: Update - count: 999
INFO: Summary Entity written: dict_perm_value - action: Update - count: 6727
INFO: Summary Entity written: script_definition - action: Insert - count: 73
INFO: Summary Entity written: xd_attribute - action: Insert - count: 1
INFO: Summary Entity written: xd_entity_feature - action: Update - count: 1
INFO: Summary Entity written: xd_index - action: Update - count: 3
INFO: Summary Entity written: dict_depends - action: Insert - count: 34177
INFO: Summary Entity written: dict_entity_constraints - action: Insert - count: 153
INFO: Summary Entity written: dict_err_msg - action: Insert - count: 393
INFO: Summary Entity written: dict_label - action: Insert - count: 72575
INFO: Summary Entity written: dict_sproc - action: Insert - count: 6501
INFO: Summary Entity written: dict_sproc_param - action: Insert - count: 30725
INFO: Summary Entity written: dict_sproc_returns - action: Insert - count: 4026
INFO: Summary Entity written: xd_label - action: Insert - count: 3
=====
```

Find text in diff and context lines

tasc-services / tsl-config / src / main / resources / META-INF / config / off-registry-extension.xml MODIFIED

Blame | G | D | ...

```

9 9 </section>
10 10 <section name="compatibility">
11 11 <entry key="tsl.domain.ignore.fields.61" flags="EXTENSION" expression="childSession,computationModeE,expirationD,instrumentDimC

12 12 <entry key="tsl.domain.ignore.fields.70" flags="EXTENSION" expression="computationModeE,repExecutionE,repStorageE,riskRule" des

13 13 <entry key="tsl.domain.ignore.fields.71" flags="EXTENSION" expression="computationModeE,riskRule,minTradingAmF,rightToRunF" de

14 14 <entry key="tsl.domain.ignore.fields.80" flags="EXTENSION" expression="computationModeE,riskRule" description="Internal use"/>
15 15 </section>
16 16
17 17 <section name="tsl tuning">
18 + <entry key="tsl.live.job.chunkSize" expression="50" description="Default chunk Size for all ts1 live financial function jobs" +>
19 19 <entry key="tsl.live.job.chunkSize" expression="50" description="Default chunk Size for all ts1 live financial function jobs" +>
20 20 <entry key="tsl.live.job.async.allocate.order.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" description="Chunk

21 21 <entry key="tsl.live.job.async.pre.trade.check.strategy.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" descri

22 22 <entry key="tsl.live.job.async.strategy.reconciliation.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" descri

23 23 <entry key="tsl.live.job.synch.financial.function.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" descri

24 24 <entry key="tsl.live.job.export.chunkSize" expression="200" description="Chunk size for the ts1-export-job.xml job" flags="EXTEN

25 25 <entry key="rule.engine.java.first" expression="true" type="boolean" description="When true search first a Java Rule and then ti

26 26 <entry key="disable.brutal.GlobalCache.validation" expression="false" type="boolean" description="If true, the validation evi

27 27 <entry key="tslDataService.canTransformOuterJoinToInnerJoin" expression="true" type="boolean" description="If true, the outer ji

28 28 <entry key="tslDataService.selectInSelect" expression="#{property('db.type') == 'sybase' ? true : false}" type="boolean" descri

29 29 <entry key="tslDataService.useCountOverAnalyticFunction" expression="true" type="boolean" description="If true, the engine add

30 30 <entry key="tsl.live.job.async.strategy.volume.rebalance.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" descri

31 31 <entry key="tsl.live.job.async.strategy.volume.allocate.order.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" de

32 32 <entry key="tsl.live.job.async.strategy.allocOrd.ordGen.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" descri

33 33 <entry key="tsl.hc_valo.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" description="Chunk size for the ts1-execut

34 34 <entry key="tsl.hc_perf.chunkSize" expression="#{property('ts1.live.job.chunkSize')}" description="Chunk size for the ts1-execut

35 35 </section>
36 -
36 + <section name="ts1 Golden Gate">
37 + <entry key="ts1.goldenGate.replicat" expression="false" description="If set to true, all scheduled tasks are disabled except th

38 + </section>

```

# IBM MQ MB:

Thursday, April 30, 2020 9:24 AM

C:\Program Files (x86)\IBM\WebSphere MQ\bin>setmqenv.cmd -s

Sunday, February 17, 2019

9:01 AM

-s Set the environment for the installation that this command comes from.

Creating the Queue Manager QM\_Demo:

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>crtmqm QM_Demo
WebSphere MQ queue manager created.
Directory 'C:\Program Files (x86)\IBM\WebSphere MQ\qmgrs\QM_Demo' created.
The queue manager is associated with installation 'Installation1'.
```

Starting the Queue Manager QM\_Demo:

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>strmqm QM_Demo
WebSphere MQ queue manager 'QM_Demo' starting.
The queue manager is associated with installation 'Installation1'.
8 log records accessed on queue manager 'QM_Demo' during the log replay phase.
Log replay for queue manager 'QM_Demo' complete.
Transaction manager state recovered for queue manager 'QM_Demo'.
Migrating objects for queue manager 'QM_Demo'.
Default objects statistics : 47 created. 0 replaced. 4 failed.
For details of the failures that occurred, please check AMQERR01.LOG.
WebSphere MQ queue manager 'QM_Demo' started using V7.5.0.1.
```

Check all the queue managers running:

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>dspmq
QMNAME(QM_LAUVDILAXMISHHE) STATUS(Running)
QMNAME(HLA_QMGR_01) STATUS(Ended unexpectedly)
QMNAME(QM_Demo) STATUS(Ended unexpectedly)
```

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>
C:\Program Files (x86)\IBM\WebSphere MQ\bin>amqspput QL1 QM_LAUVDILLAXMISHHE
Sample AMQSPUTO start
MQCONN ended with reason code 2058
```

Enable all the MQ commands to queue manager QM\_Demo:

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>runmqsc QM_Demo
5724-H72 (C) Copyright IBM Corp. 1994, 2011. ALL RIGHTS RESERVED.
Starting MQSC for queue manager QM_Demo.
```

Writing the message on to the queue:

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>amqspput QL1 QM_Demo
Hello
World
```

Reading the message on to the queue QL1:

```
C:\Program Files (x86)\IBM\WebSphere MQ\bin>amqsget QL1 QM_Demo
```

Hello  
World

<https://www.youtube.com/watch?v=cWJpRtjGiAM>

## Deadlocks & Locking Queries, Plan

Thursday, April 30, 2020 9:26 AM

[https://en.wikibooks.org/wiki/Linux\\_Applications\\_Debugging\\_Techniques/Deadlocks](https://en.wikibooks.org/wiki/Linux_Applications_Debugging_Techniques/Deadlocks)

Monday, December 03, 2018  
5:30 PM

[https://en.wikibooks.org/wiki/Linux\\_Applications\\_Debugging\\_Techniques/Deadlocks](https://en.wikibooks.org/wiki/Linux_Applications_Debugging_Techniques/Deadlocks)

```
SET AUTOTRACE ON STATISTICS - In Oracle
select s.sid, s.serial#, s.module, s.program, s.machine, s.osuser, sql.sql_text, s.blocking_session
from v$session s,
 v$sqlarea sql
where s.sql_id = sql.sql_id
and s.sid in (select blocking_session from v$session);
```

From <<http://rd.temenosgroup.com/browse/PCC-21908>>

1) Query to find out all the locked tables in oracle:

```
select c.owner, c.object_name, c.object_type, b.sid, b.status, b.osuser, b.machine from v$locked_object a , v$session b,dba_objects c where b.sid = a.session_id and a.object_id = c.object_id;
```

2) Select sid,inst\_id,username from gv\$session where username is not null and event='enq: TM - contention';

3) Select p1, p1text, p2, p2text, p3, p3text from gv\$session where sid=<from 2>

4) Similar to above lock on particular entity:

```
-- check lock on ext_strat_element
SELECT a.session_id, a.oracle_username, a.os_user_name, b.object_name, a.locked_mode
 FROM v$locked_object a,sys.all_objects b
 WHERE b.object_id = a.object_id and b.object_name like '%EXT_STRAT%';
```

5) Show All the sessions waiting for any lock

```
select event,p1,p2,p3 from v$session_wait where wait_time=0 and event='enqueue';
```

6) Show sessions waiting for a TX lock

```
select * from v$lock where type='TX' and request>0;
```

7) Show sessions holding a TX lock

```
select * from v$lock where type='TX' and lmode>0;
```

8) To Display all the locked objects with details of the type of locks (Useful one)

```
column sid_ser format a12 heading 'session_id|serial#';
column username format a12 heading 'os user/db user';
column process format a9 heading 'os|process';
column spid format a7 heading 'trace|number';
column owner_object format a35 heading 'owner.object';
column locked_mode format a13 heading 'locked|mode';
column status format a8 heading 'status';
select substr((char(l.session_id)||'.'||to_char(s.serial#),1,12) sid_ser,
 substr(l.os_user_name||'/'||l.oracle_username,1,12) username,
 l.process, p.spid,
 substr(o.owner||'.'||o.object_name,1,35) owner_object,
 decode(l.locked_mode,
 1,'No Lock',
 2,'Row Share',
 3,'Row Exclusive',
 4,'Share',
 5,'Share Row Excl',
 6,'Exclusive',null)locked_mode,
 substr(s.status,1,8) status
 from
 v$locked_object l,
 all_objects o,
 v$session s,
 v$process p
 where
 l.object_id = o.object_id
 and l.session_id = s.sid
 and s.paddr = p.addr
 and s.status != 'KILLED';
```

9) Query to kill the oracle session found above (Get the sid from v\$session)

```
select 'alter system kill session "'||sid||'.'||serial#||''';' from v$session where sid=&1;
```

10) Check sessions which are blocking other sessions:

```
-- chk BLOCKING SESSION
select s.sid, s.serial#, s.process, s.module, s.program, s.machine, s.osuser, s.blocking_session, s.seconds_in_wait
,sql.sql_text
from v$session s, v$sqlarea sql
where s.sql_id = sql.sql_id and s.sid in (select blocking_session from v$session);
```

Note: v\$session.process also provides the process ID and the thread ID of the application. The thread ID is visible in the Visual Studio threads window and is the thread which is being blocked / blocking.

```
-- check module query
If required to filter between many modules, just add the module as part of the where clause. Ex:
...
where s.sql_id = sql.sql_id and s.sid in (select blocking_session from v$session) and s.module='AAASERV/MSS';
```

11) Check blocked sessions:

```
select * from v$session s where blocking_session>0;
select a.session_id, a.oracle_username, a.os_user_name, b.object_name, a.locked_mode from v$locked_object a,sys.all_objects b where b.object_id=a.object_id and b.object_name like '%EXT_STRAT%';

select s.process, s.* from v$session s where blocking_session >0;
select s.sid, s.serial#, s.process, s.module, s.program, s.machine, s.osuser, s.blocking_session, s.seconds_in_wait, sql_text from v$session s, v$sqlarea sql where s.sql_id=sql.sql_id and s.sid in (select blocking_session from v$session);

12) select
(select username || '-' || osuser from v$session where sid=a.sid) blocker,
a.sid || ',' ||
(select serial# from v$session where sid=a.sid) sid_serial,
```

```
'is blocking',
(select username || '-' || osuser from v$session where sid=b.sid) blockee,
b.sid || ',' ||
(select serial# from v$session where sid=b.sid) sid_serial
from v$lock a, v$lock b
where a.block = 1
and b.request > 0
and a.id1 = b.id1
and a.id2 = b.id2;
5)

select
l.session_id, l.oracle_username, l.os_user_name, l.process, Decode(l.locked_mode, 0, 'None',
1, 'Null (NULL)',
2, 'Row-S (S$)',
3, 'Row-X (SX)',
4, 'Share ($)',
5, 'S/Row-X (SSX)',
6, 'Exclusive (X)',
l.locked_mode) locked_mode,
o.owner, o.object_name, o.object_type
```

from v\$locked\_object l join ALL\_OBJECTS o on o.object\_id = l.object\_id  
where session\_id=139

From <[http://rd.temenosgroup.com/secure/attachment/183528/blocking\\_situation.txt](http://rd.temenosgroup.com/secure/attachment/183528/blocking_situation.txt)>

### 13) select ash.session\_id, ar.sql\_text,

```
ash.SESSION_SERIAL#,
ash.sql_id,
ash.top_level_sql_id,
ash.sql_plan_operation,
ash.sql_exec_start,
ash.event,
ash.blocking_session,
ash.program,
ash.module,
ash.machine
from v$active_session_history ash
inner join v$qlarea ar on ar.sql_id=ash.sql_id
where session_id in (370,1703,2195,139,499,622,3768)
order by ash.session_id asc, sql_exec_start desc
```

From <[http://rd.temenosgroup.com/secure/attachment/183528/blocking\\_situation.txt](http://rd.temenosgroup.com/secure/attachment/183528/blocking_situation.txt)>

## 14) Detect Open Cursors in Oracle

```
select sql_text, count(*) as "OPEN CURSORS", user_name from v$open_cursor
group by sql_text, user_name order by count(*) desc;
```

From <<http://www.devx.com/tips/Tip/15412>>

```
select a.value, s.username, s.sid, s.serial# from v$sesstat a, v$statname b, v$session s where a.statistic# = b.statistic# and s.sid=a.sid and b.name = 'opened cursors current';
```

From <<https://stackoverflow.com/questions/1010898/how-to-find-current-open-cursors-in-oracle>>

```
select sql_text, count(*) as "OPEN CURSORS", user_name from v$open_cursor group by sql_text, user_name order by count(*) desc;
From <https://stackoverflow.com/questions/1010898/how-to-find-current-open-cursors-in-oracle>
```

```
COLUMN USER_NAME FORMAT A15
SELECT s.machine, oc.user_name, oc.sql_text, count(1) FROM v$open_cursor oc, v$session s WHERE oc.sid = s.sid GROUP BY user_name, sql_text, machine HAVING COUNT(1) > 2 ORDER BY count(1) DESC;
```

From <<https://stackoverflow.com/questions/1010898/how-to-find-current-open-cursors-in-oracle>>

```
select sum(a.value) total_cur, avg(a.value) avg_cur, max(a.value) max_cur, s.username, s.machine from v$sesstat a, v$statname b, v$session s where a.statistic# = b.statistic# and s.sid=a.sid and b.name = 'opened cursors current' group by s.username, s.machine order by 1 desc;
```

[http://docs.oracle.com/cd/E40329\\_01/admin.1112/e27149/cursor.htm#OMADM5352](http://docs.oracle.com/cd/E40329_01/admin.1112/e27149/cursor.htm#OMADM5352)

```
SET NEWPAGE 0
SET SPACE 0
SET LINESIZE 80
SET PAGESIZE 0
SET ECHO OFF
SET FEEDBACK OFF
SET HEADING OFF
```

--From <[https://docs.oracle.com/cd/F49540\\_01/DOC/server.815/a66736/ch44.htm](https://docs.oracle.com/cd/F49540_01/DOC/server.815/a66736/ch44.htm)>

```
SELECT TO_CHAR (SYSDATE, 'MM-DD-YYYY HH24:MI:SS') "Start Date / Time" FROM DUAL;
```

```
exec DBMS_LOCK.sleep(15);
```

```
SELECT TO_CHAR (SYSDATE, 'MM-DD-YYYY HH24:MI:SS') "End Date / Time" FROM DUAL;
select * from dbms_lock_allocated
```

```
create table lock_test (action varchar(10), when_date);
```

```
set serveroutput on size 100000
```

```
declare
```

```
v_lockhandle varchar2(200);
```

```
v_result number;
```

```
begin
```

```
dbms_lock.allocate_unique('control_lock', v_lockhandle);
```

```
v_result := dbms_lock.request(v_lockhandle, dbms_lock.x_mode, 50);
```

```
if v_result <> 0 then
```

```
dbms_output.put_line(
```

```
case
```

```
when v_result=1 then 'Timeout'
```

```
when v_result=2 then 'Deadlock'
```

```
when v_result=3 then 'Parameter Error'
```

```
when v_result=4 then 'Already owned'
```

```
when v_result=5 then 'Illegal Lock Handle'
```

```

 end);
else dbms_output.put_line('Got the lock');
end if;
end;
/

```

## ORA-00054 ERROR MESSAGE

Error ORA-00054 is a common seen error by Oracle users and occurs when a user tries to execute a LOCK TABLE or SELECT FOR UPDATE comm and with the NOWAIT keyword when the resource is unavailable. DDL or DML operations are being run concurrently without proper commits. In most cases, Error ORA-00054? occurs from a session. Any session that has referenced the table and any structural change attempt, such as adding a column, requires an "exclusive" lock.

There are several options for tables or views to see locks and specific information about the locks:

DBA\_BLOCKERS: Shows non-waiting sessions holding locks being waited on  
 DBA\_DDL\_LOCKS: Shows all DDL locks held or being requested  
 DBA\_DML\_LOCKS: Shows all DML locks held or being requested  
 DBA\_LOCK\_INTERNAL: Displays 1 row for every lock/latch held or being requested with the username of who is holding lock  
 DBA\_LOCKS: Shows all locks/latches held or being requested  
 DBA\_WAITERS: Shows all sessions waiting on but not holding waited for locks

The first step the user should take in fixing this error is to wait a few minutes, then try the command again. This simple step may solve the problem. If this does not work, identify the database session locking the object and kill this session.

To identify the session, write the following SQL statement:

```

select a.sid, a.serial#
from v$session a, v$locked_object b, dba_objects c
where b.object_id = c.object_id
and a.sid = b.session_id
and OBJECT_NAME='EMP';

```

To kill the session and unlock the tables, write the following statement:

```
SQL>alter system kill session 'sid, serial#';
```

Another option to fix this error in Oracle 11g is to make your table read-only to prevent DML.

Take the following SQL statement example:

```
SQL> alter table emp add (cust_id varchar2(3));
```

To alter the session table, execute the following:

```
SQL>alter table emp read only;
```

```
SQL> alter table emp add (cust_id varchar2(3));
```

Another solution in Oracle 11g is to create a timeout to set how long you want DDL to wait for the object to become available. To set a timeout, write the following statement:

```
SQL> alter session set ddl_lock_timeout = time_to_wait;
```

```
SQL> alter table emp add (cust_id varchar2(3));
```

To avoid seeing Error ORA-00054? in the future, practice the following tips:

Execute DDL during off-peak hours when the database is idle, such as late at night.

Execute DDL during a maintenance window when all the end-users are locked out.

Identify and kill the session that is preventing the exclusive lock.

From <<https://www.tekstream.com/resource-center/ora-00054-resource-busy-or-timeout-expired/>>

-----  
 To obtain list of the locked rows that are Blocking other sessions

Session #1  
 scott#1:SQL>select \* from dept;

| DEPTNO | DNAME      | LOC      |
|--------|------------|----------|
| 10     | ACCOUNTING | NEW YORK |
| 20     | RESEARCH   | DALLAS   |
| 30     | SALES      | CHICAGO  |
| 40     | OPERATIONS | BOSTON   |

scott#1:SQL>update dept set loc='SP' where deptno=30;

=> another session tries to use the same row, becoming Blocked :

scott#2:SQL>update dept set loc='RJ' where deptno=30;

From <<https://asktom.oracle.com/pls/apex/asktom.search?tag=how-to-get-rowid-for-locked-rows-in-oracle>>

Tables which can be queried during the long execution

1. v\$sql\_monitor
2. v\$sql
3. v\$sqllibrea
4. ======  
 --To Resolve the resource busy issue:  
 --- DB Message :  
 ---ORA-00054: resource busy and acquire with NOWAIT specified or timeout expired;

```

select * from v$locked_object ;--select object id
select * from all_objects where object_id=73298;
select * from v$session where sid=380;
select 'alter system kill session "'||sid||'.'||serial#||'"' from v$session where sid=380;
alter system kill session '380,2005';

```

| SADDR              | SID | SERIAL# | AUDSID     | PADDR            | USER# | USERNAME | COMMAND | OWNERID      | TADOR  | LOCKWAIT | STATUS | SERVER    | SCHEMA#       | SCHEMENAME     | OSUSER | PROCESS  | MACHINE |
|--------------------|-----|---------|------------|------------------|-------|----------|---------|--------------|--------|----------|--------|-----------|---------------|----------------|--------|----------|---------|
| 1 000000007AC310B0 | 380 | 2005    | 4294967295 | 000000007A541910 | 0 SYS |          |         | 0 2147483644 | (null) | (null)   | KILLED | DEDICATED | 109 AAAMAINDB | karthik.kembai | 38036  | D80YXBZ2 |         |

```

SELECT O.OBJECT_NAME, S.SID, S.SERIAL#, P.SPID, S.PROGRAM,S.USERNAME,
S.MACHINE,S.PORT , S.LOGON_TIME,SQ.SQL_FULLTEXT
FROM V$LOCKED_OBJECT L, DBA_OBJECTS O, V$SESSION S,
V$PROCESS P, V$SQL SQ
WHERE L.OBJECT_ID = O.OBJECT_ID
AND L.SESSION_ID = S.SID AND S.PADDR = P.ADDR
AND S.SQL_ADDRESS = SQ.ADDRESS;

```

=====

Skip to end of metadata

- Created by [Laxmish Hegde](#), last modified on [Nov 20, 2017](#).
- [Go to start of metadata](#)

To execute the below queries, login with sys user.

To check the locks on the table and the session:

```

SQL> set serveroutput on
SQL> BEGIN
dbms_output.enable(1000000);
for do_loop in (SELECT session_id, a.object_id, xidsqn, oracle_username, b.owner owner,
b.object_name object_name, b.object_type object_type
FROM v$locked_object a, dba_objects b

```

```

WHERE xidsqn != 0 AND b.object_id = a.object_id)
loop
dbms_output.put_line('.');
dbms_output.put_line('Blocking Session : '|do_loop.session_id);
dbms_output.put_line('Object (Owner/Name): '|do_loop.owner||'|'||do_loop.object_name);
dbms_output.put_line('Object Type : '|do_loop.object_type);
for next_loop in (select sid from v$lock
where id2 = do_loop.xidsqn and sid != do_loop.session_id)
LOOP
dbms_output.put_line('Sessions being blocked : '||next_loop.sid);
END LOOP;
end loop;
END;
/

```

check the v\$lock table for any lock on the objects. Following query helps in finding the locking session.

```
SQL> select * from v$lock where block > 0;
```

#### Query to find the locks

```

SQL> SELECT
(select username || ' - ' || osuser from v$session where sid=a.sid) blocker, a.sid || ', ' ||
(select serial# from v$session where sid=a.sid) sid_serial, ' is blocking',
(select username || ' - ' || osuser from v$session where sid=b.sid) blockee, b.sid || ', ' ||
(select serial# from v$session where sid=b.sid) sid_serial
from v$lock a, v$lock b
where a.block = 1 and b.request > 0 and a.id1 = b.id1 and a.id2 = b.id2;

```

#### To check the details on the osuser and locked session

```

SQL> SELECT c.owner, c.object_name, c.object_type, b.sid, b.serial#, b.status, b.osuser, b.machine
FROM v$locked_object a , v$session b , dba_objects c
WHERE b.sid = a.session_id AND a.object_id = c.object_id;

```

#### Script to Report DDL Locks currently in Use

```

SQL> COLUMN owner FORMAT a15 HEADING 'User'
COLUMN session_id HEADING 'SID'
COLUMN mode_held FORMAT a20 HEADING 'Lock Mode|Held'
COLUMN mode_requested FORMAT a20 HEADING 'Lock Mode|Requested'
COLUMN type HEADING 'Type|Object'
COLUMN name HEADING 'Object|Name'
SET FEEDBACK OFF ECHO OFF PAGES 59 LINES 131
TTITLE left _date center 'Report on All DDL Locks Held' skip 2
SELECT NVL (owner, 'SYS') owner, session_id, NAME, TYPE, mode_held,
mode_requested
FROM dba_ddl_locks
ORDER BY 2
/
CLEAR COLUMNS
SET FEEDBACK ON PAGES 22 LINES 80
TTITLE OFF

```

#### Script to know all the DML locks held

```

SQL> COLUMN owner FORMAT a15 HEADING 'User'
COLUMN session_id HEADING 'SID'
COLUMN mode_held FORMAT a20 HEADING 'Mode|Held'
COLUMN mode_requested FORMAT a20 HEADING 'Mode|Requested'
SET FEEDBACK OFF ECHO OFF PAGES 59 LINES 131
TTITLE left _date center 'Report on All DML Locks Held' skip 2
SELECT NVL (owner, 'SYS') owner, session_id, NAME, mode_held, mode_requested
FROM sys.dba_dml_locks
ORDER BY 2
/
CLEAR COLUMNS
SET FEEDBACK ON PAGES 22 LINES 80
TTITLE OFF

```

#### Session blocking other session

```

SQL> COLUMN username FORMAT a10 HEADING 'Holding|User'
COLUMN session_id HEADING 'SID'
COLUMN mode_held FORMAT a20 HEADING 'Mode|Held'
COLUMN mode_requested FORMAT a20 HEADING 'Mode|Requested'
COLUMN lock_id1 FORMAT a20 HEADING 'Lock||ID1'
COLUMN lock_id2 FORMAT a20 HEADING 'Lock||ID2'
COLUMN type HEADING 'Lock|Type'
SET LINES 132 PAGES 59 FEEDBACK OFF ECHO OFF

```

```

TTITLE left _date center 'Sessions Blocking Other Sessions Report' skip 2
SELECT a.session_id, username, TYPE, mode_held, mode_requested, lock_id1,
lock_id2
FROM v$session b, dba_blockers c, dba_locks a
WHERE c.holding_session = a.session_id AND c.holding_session = b.sid
/
CLEAR COLUMNS

```

#### How to check any deadlock and other locking issues

SQL> select sid, serial#, username, command, lockwait, osuser from v\$session where lockwait is not null

To kill a locked session, first need to find sid, serial and use

SQL> alter system kill session 'sid, serial#';

To find which SQL has lock wait

SQL> select sql\_text from v\$sqltext where (address,hash\_value) in (select sql\_address,sql\_hash\_value from v\$session where loc\_kwait is not null) order by address, hash\_value, piece

From <<https://confluencedev1ha.terenos.com/display/TOOLS/Queries+to+find+the+deadlocks%2C+locks%2C+blockers+in+oracle+database>>

=====

#### Deadlock queries to find which sqltext level

```

Sql> select s.username, s.sid, s.osuser, t.sql_id, sql_text from v$sqltext_with_newlines t, v$session s
Where t.address=s.sql_address
And t.hash_value = s.sql_hash_value
And s.status = 'ACTIVE'
And s.username <> 'SYSTEM'
Order by s.sid, t.piece;

Select s.username, s.sid, s.osuser, t.sql_id, sql_text from v$sqltext_with_newlines t, v$session s
Where t.address = s.sql_address
And t.hash_value = s.sql_hash_value
And s.sid=60;

--to detect deadlocks
Sql> select (select username from v$session where sid=a.sid) blocker, a.sid, ' is blocking', (select username from v$session where sid=b.sid) blockee, b.sid from v$lock a, v$lock b
Where a.block = 1 and b.request > 0 and a.id1 = b.id1 and a.id2 = b.id2;

--to remove the deadlocks
Sql> begin
 Rdsadmin.rdsadmin_util.kill(sid=> 8169, serial => 28981);
 End;
/

Sql> Select * from v$sqltext _with_newlines where sql_id='3n5678888';

SQL> select text from all_source where owner = 'AAAMAINDB' and name = 'U_DICT_DEPENDS_TRG' order by line;

```

## Oracle: SQL Binding values and variables to query

12 April 2023 10:08

```
8g3krqvvcz2sv3

select s.sql_id,
 bc.position,
 bc.value_string,
 s.last_load_time,
 bc.last_captured
 from v$sql s
 left join v$sql_bind_capture bc
 on bc.sql_id = s.sql_id
 and bc.child_number = s.child_number
 where s.sql_id = '8g3krqvvcz2sv3'
order by s.sql_id, bc.position;

select * from domain
```

```
select * from gv$sql_bind_capture;
```

| INST_ID | ADDRESS            | HASH_VALUE               | SQL_ID           | CHILD_ADDRESS | CHILD_NUMBER | NAME | POSITION | DUP_POSITION | DATATYPE      | DATATYPE_STR |
|---------|--------------------|--------------------------|------------------|---------------|--------------|------|----------|--------------|---------------|--------------|
| 1       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 1         |              |      | 1        | (null)       | 2 NUMBER      |              |
| 2       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 2         |              |      | 2        | (null)       | 1 VARCHAR2 (  |              |
| 3       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 3         |              |      | 3        | (null)       | 1 VARCHAR2 (  |              |
| 4       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 4         |              |      | 4        | (null)       | 1 VARCHAR2 (  |              |
| 5       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 5         |              |      | 5        | (null)       | 1 VARCHAR2 (  |              |
| 6       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 6         |              |      | 6        | (null)       | 180 TIMESTAMP |              |
| 7       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 7         |              |      | 7        | (null)       | 180 TIMESTAMP |              |
| 8       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 8         |              |      | 8        | (null)       | 180 TIMESTAMP |              |
| 9       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 9         |              |      | 9        | (null)       | 1 VARCHAR2 (  |              |
| 0       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 10        |              |      | 10       | (null)       | 1 VARCHAR2 (  |              |
| 1       | 1 0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 11        |              |      | 11       | (null)       | 2 NUMBER      |              |
| 2       | 1 0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_0   |              |      | 1        | (null)       | 2 NUMBER      |              |
| 3       | 1 0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_1   |              |      | 2        | (null)       | 2 NUMBER      |              |
| 4       | 1 0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_2   |              |      | 3        | (null)       | 2 NUMBER      |              |
| 5       | 1 0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_3   |              |      | 4        | (null)       | 2 NUMBER      |              |
| 6       | 1 00000000809E1EF8 | 1052246055 3rju5whzbh017 | 00000002D77AA1F8 | 5 : B3        |              |      | 1        | (null)       | 1 VARCHAR2 (  |              |
| 7       | 1 00000000809E1EF8 | 1052246055 3rju5whzbh017 | 00000002D77AA1F8 | 5 : B2        |              |      | 2        | (null)       | 1 VARCHAR2 (  |              |
| 8       | 1 00000000809E1EF8 | 1052246055 3rju5whzbh017 | 00000002D77AA1F8 | 5 : B1        |              |      | 3        | (null)       | 2 NUMBER      |              |
| 9       | 1 00000000809E1EF8 | 1052246055 3rju5whzbh017 | 000000019B59F790 | 3 : B3        |              |      | 1        | (null)       | 1 VARCHAR2 (  |              |
| 0       | 1 00000000809E1EF8 | 1052246055 3rju5whzbh017 | 000000019B59F790 | 3 : B2        |              |      | 2        | (null)       | 1 VARCHAR2 (  |              |

```
select * from v$sql_bind_capture;
```

| ADDRESS            | HASH_VALUE               | SQL_ID           | CHILD_ADDRESS | CHILD_NUMBER | NAME | POSITION | DUP_POSITION | DATATYPE          | DATATYPE_STRING |
|--------------------|--------------------------|------------------|---------------|--------------|------|----------|--------------|-------------------|-----------------|
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 1         |              |      | 1        | (null)       | 2 NUMBER          |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 2         |              |      | 2        | (null)       | 1 VARCHAR2 (4000) |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 3         |              |      | 3        | (null)       | 1 VARCHAR2 (128)  |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 4         |              |      | 4        | (null)       | 1 VARCHAR2 (2000) |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 5         |              |      | 5        | (null)       | 1 VARCHAR2 (32)   |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 6         |              |      | 6        | (null)       | 180 TIMESTAMP     |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 7         |              |      | 7        | (null)       | 180 TIMESTAMP     |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 8         |              |      | 8        | (null)       | 180 TIMESTAMP     |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 9         |              |      | 9        | (null)       | 1 VARCHAR2 (128)  |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 10        |              |      | 10       | (null)       | 1 VARCHAR2 (2000) |                 |
| 0:0000000278CB1BB0 | 2299265045 9jqc35q4hs00p | 0000000173D0BDA0 | 0 : 11        |              |      | 11       | (null)       | 2 NUMBER          |                 |
| 0:0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_0   |              |      | 1        | (null)       | 2 NUMBER          |                 |
| 0:0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_1   |              |      | 2        | (null)       | 2 NUMBER          |                 |
| 0:0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_2   |              |      | 3        | (null)       | 2 NUMBER          |                 |
| 0:0000000240762918 | 654442524 83aack0mh400w  | 00000002525831B0 | 0 : SYS_B_3   |              |      | 4        | (null)       | 2 NUMBER          |                 |
| 0:00000000809E1EF8 | 1052246055 3rju5whzbh017 | 00000002D77AA1F8 | 5 : B3        |              |      | 1        | (null)       | 1 VARCHAR2 (128)  |                 |
| 0:00000000809E1EF8 | 1052246055 3rju5whzbh017 | 00000002D77AA1F8 | 5 : B2        |              |      | 2        | (null)       | 1 VARCHAR2 (128)  |                 |
| 0:00000000809E1EF8 | 1052246055 3rju5whzbh017 | 00000002D77AA1F8 | 5 : B1        |              |      | 3        | (null)       | 2 NUMBER          |                 |
| 0:00000000809E1EF8 | 1052246055 3rju5whzbh017 | 000000019B59F790 | 3 : B3        |              |      | 1        | (null)       | 1 VARCHAR2 (32)   |                 |
| 0:00000000809E1EF8 | 1052246055 3rju5whzbh017 | 000000019B59F790 | 3 : B2        |              |      | 2        | (null)       | 1 VARCHAR2 (32)   |                 |
| 0:00000000809E1FF8 | 1052246055 3rju5whzbh017 | 000000019B59F790 | 3 : B1        |              |      | 3        | (null)       | 2 NUMBER          |                 |

```
SQL> dbms_monitor.session_trace_enable(binds=>true)
SQL> exec dbms_monitor.session_trace_enable(binds=>false);
SQL> select * from v$sql_monitor;
```

From <<https://asktom.oracle.com/pls/apex/asktom.search?tag=view-for-finding-bind-variable-values>>

```
demo@ORA12C> begin
 2 dbms_fga.add_policy(
 3 object_schema=>user,
 4 object_name=>'EMP',
 5 policy_name=>'EMP_SAL_ACCESS',
 6 audit_condition=> 'sal > 1500',
 7 audit_column=>'SAL');
 8 end;
9 /
```

```
SELECT
 a.sql_text,
 b.name,
 b.position,
 b.datatype_string,
 b.value_string
FROM v$SQL_bind_capture b,v$sqlarea
WHERE
 b.sql_id = a.sql_id;
```

|                                                                                                  | NAME     | POSITION | DATATYPE_STRING | VALUE_STRING |
|--------------------------------------------------------------------------------------------------|----------|----------|-----------------|--------------|
| 533 S IGNORE_WHERE_CLAUSE RESULT_CACHE(SNAPSHOT=3600) opt_param('parallel_execution_enabl... :B1 | 3 NUMBER |          | (null)          |              |
| 534 TP.NAME AS NAME, TP.DENOM AS DENOM, TP.LANGUAGE_DICT_ID AS LANGUAGE_DICT_ID, TP.CURRE... :B2 | 1 NUMBER |          | 1               |              |
| 535 TP.NAME AS NAME, TP.DENOM AS DENOM, TP.LANGUAGE_DICT_ID AS LANGUAGE_DICT_ID, TP.CURRE... :B2 | 2 NUMBER |          | 1               |              |
| 536 TP.NAME AS NAME, TP.DENOM AS DENOM, TP.LANGUAGE_DICT_ID AS LANGUAGE_DICT_ID, TP.CURRE... :B2 | 3 NUMBER |          | 1               |              |
| 537 TP.NAME AS NAME, TP.DENOM AS DENOM, TP.LANGUAGE_DICT_ID AS LANGUAGE_DICT_ID, TP.CURRE... :B2 | 4 NUMBER |          | 1               |              |
| 538 TP.NAME AS NAME, TP.DENOM AS DENOM, TP.LANGUAGE_DICT_ID AS LANGUAGE_DICT_ID, TP.CURRE... :B1 | 5 NUMBER |          | 627             |              |
| 539 TP.NAME AS NAME, TP.DENOM AS DENOM, TP.LANGUAGE_DICT_ID AS LANGUAGE_DICT_ID, TP.CURRE... :B2 | 6 NUMBER |          | 1               |              |
| 540 D REF_GRID_ID, MAST.GRID_ID AS GRID_ID, MAST.PARENT_MARKET_SEGMENT_ID AS PARENT_MA... :B1    | 1 NUMBER |          | 23              |              |
| 541 S IGNORE_WHERE_CLAUSE RESULT_CACHE(SNAPSHOT=3600) opt_param('parallel_execution_enabl... :B1 | 1 NUMBER |          | (null)          |              |
| 542 S IGNORE_WHERE_CLAUSE RESULT_CACHE(SNAPSHOT=3600) opt_param('parallel_execution_enabl... :B2 | 2 NUMBER |          | (null)          |              |
| 543 S IGNORE_WHERE_CLAUSE RESULT_CACHE(SNAPSHOT=3600) opt_param('parallel_execution_enabl... :B3 | 3 NUMBER |          | (null)          |              |
| 544 S IGNORE_WHERE_CLAUSE RESULT_CACHE(SNAPSHOT=3600) opt_param('parallel_execution_enabl... :B4 | 4 NUMBER |          | (null)          |              |

```
demo@ORA12C> @printtbl "select * from dba_fga_audit_trail "
```

From <<https://asktom.oracle.com/pls/apex/asktom.search?tag=view-for-finding-bind-variable-values>>

The screenshot shows the Oracle SQL Developer interface. On the left, a query builder window displays a complex SQL query involving multiple tables like v\$session, v\$bind, and dba\_fga\_audit\_trail. The main area shows the query results in a table format. The table has columns: MACHINE, OSUSER, SQL\_ID, and SQL\_TEXT. One row is visible: 1p14004lx.juliusbaer.com (TNS V1-V3) srp14004lx.juliusbaer.com admta 8g3krqvcsz8v3 DELETE AAAMAINDB.DOMAIN WHERE FUNC\_RESULT\_ID = :B2 OR (FUNC\_RESULT\_ID IS NULL AND ID = :B2 ) AND OWNER\_BUSINESS\_ENTITY\_ID = :B3. Below the table, there's a note: "Script Output X Query Result X". At the bottom, a status bar indicates "All Rows Fetched: 1 in 0.406 seconds". On the right, a smaller window titled "worksheet" also contains a portion of the same query.

[https://oracle-base.com/articles/misc/sql-trace-10046-trcsess-and-tkprof#tracing\\_individual\\_sql\\_statements](https://oracle-base.com/articles/misc/sql-trace-10046-trcsess-and-tkprof#tracing_individual_sql_statements)

## 1. Using V\$SQL\_BIND\_CAPTURE

Oracle automatically captures bind variables for SQL queries that have been executed, and you can query them from V\$SQL\_BIND\_CAPTURE.

```
sql
CopyEdit
SELECT
 sql_id,
 name,
 position,
 datatype_string,
 value_string
FROM v$SQL_bind_capture
WHERE sql_id = '<SQL_ID>'; -- Replace with actual SQL_ID
 • SQL_ID: Identifies the SQL statement.
 • NAME: The bind variable name.
 • POSITION: The position of the bind variable.
 • DATATYPE_STRING: The datatype of the bind variable.
 • VALUE_STRING: The captured bind value.
 Note:
 • Oracle captures bind values periodically, not in real-time.
 • Some bind values might not be available if they are considered sensitive or if the query executes too quickly.
```

## 2. Using V\$SESSION\_BIND\_CAPTURE

If you need to check bind values for active sessions:

```
sql
CopyEdit
SELECT
 s.sid,
 sb.name,
```

```
sb.position,
sb.datatype_string,
sb.value_string
FROM v$session_bind_capture sb
JOIN v$session s ON sb.sid = s.sid
WHERE s.username = 'YOUR_USER'; -- Replace with actual schema user
```

### 3. Using SQL Trace (10046 Event)

To capture bind variable values at runtime, enable SQL Trace:

```
sql
CopyEdit
ALTER SESSION SET EVENTS '10046 TRACE NAME CONTEXT FOREVER, LEVEL 12';
• Run your SQL queries.
• Disable the trace:

sql
CopyEdit
ALTER SESSION SET EVENTS '10046 TRACE NAME CONTEXT OFF';
• Locate the generated trace file in the USER_DUMP_DEST or DIAGNOSTIC_DEST.
• Use tkprof to analyze it.
```

### 4. Using DBMS\_MONITOR (Session Tracing)

You can enable tracing for a specific session:

```
sql
CopyEdit
EXEC DBMS_MONITOR.SESSION_TRACE_ENABLE(session_id => <SESSION_ID>, waits => TRUE, binds => TRUE);
• After running queries, disable tracing:

sql
CopyEdit
EXEC DBMS_MONITOR.SESSION_TRACE_DISABLE(session_id => <SESSION_ID>);
• Analyze the trace file.
```

### 5. Using AWR and ASH Reports

If historical bind variable data is needed:

```
sql
CopyEdit
SELECT
 sql_id,
 name,
 datatype_string,
 value_string
FROM dba_hist_sqlbind
WHERE sql_id = <SQL_ID>;
❖ Note: Requires DBA privileges.
```

# C++/C code template for sql query execution

13 May 2023 14:06

Fininstr.c:FIN\_TranferDataIntoFinalTable

```
DbiConnectionHelper dbiConnHelper;
string insSqlQueryStr, delSqlQueryStr, bElIdStr = "", instrCstStr, ptfCstStr, applUserCstStr;

dbiConnHelper.isValidAndInit();

if (delSqlQueryStr[0] != END_OF_STRING)
 ret = dbiConnHelper.dbaSqlExec(delSqlQueryStr);

if (ret == RET_SUCCEED && insSqlQueryStr[0] != END_OF_STRING)
 ret = dbiConnHelper.dbaSqlExec(insSqlQueryStr);
```

# How to see loaded shared libraries for process

03 February 2023 10:05

1. lsof /path/to/lib.so
2. lsof -p <pid>
3. sudo grep libcairo.so /proc/\*/maps
4. cat /proc/\*/maps | awk '{print \$6;}' | grep '\.so' | sort | uniq
5. aaa@vmlaulxora1:/proc/3558> cat maps

```
00400000-01638000 r-xp 00000000 fd:00 10622598
01838000-0222e000 r-p 01238000 fd:00 10622598
0222e000-02720000 rw-p 01c2e000 fd:00 10622598
02720000-0281a000 rw-p 00000000 00:00 0
044b0000-0bd75000 rw-p 00000000 00:00 0
7f387c000000-7f387c021000 rw-p 00000000 00:00 0
7f387c021000-7f3880000000 ---p 00000000 00:00 0
7f3884000000-7f3884046000 rw-p 00000000 00:00 0
7f3884046000-7f3888000000 ---p 00000000 00:00 0
7f388affe000-7f388aff000 ---p 00000000 00:00 0
7f388aff000-7f388b7ff000 rwxp 00000000 00:00 0
7f388b7ff000-7f388b800000 ---p 00000000 00:00 0
7f388b800000-7f388c000000 rwxp 00000000 00:00 0
```

```
7f38d4404000-7f38d4409000 r-xp 00000000 08:01 25167099
7f38d4409000-7f38d4608000 ---p 00005000 08:01 25167099
7f38d4608000-7f38d4609000 r--p 00004000 08:01 25167099
7f38d4609000-7f38d460a000 rw-p 00005000 08:01 25167099
7f38d460a000-7f38d4614000 r-xp 00000000 08:01 25168207
7f38d4614000-7f38d4814000 ---p 0000a000 08:01 25168207
7f38d4814000-7f38d4815000 r--p 0000a000 08:01 25168207
7f38d4815000-7f38d4816000 rw-p 0000b000 08:01 25168207
7f38d4816000-7f38d4820000 r-xp 00000000 08:01 25167105
7f38d4820000-7f38d4a20000 ---p 0000a000 08:01 25167105
7f38d4a20000-7f38d4a21000 r--p 0000a000 08:01 25167105
7f38d4a21000-7f38d4a22000 rw-p 0000b000 08:01 25167105
7f38d4a22000-7f38d4a2e000 r-xp 00000000 08:01 25167101
7f38d4a2e000-7f38d4c2d000 ---p 0000c000 08:01 25167101
7f38d4c2d000-7f38d4c2e000 r--p 0000b000 08:01 25167101
7f38d4c2e000-7f38d4c2f000 rw-p 0000c000 08:01 25167101
7f38d4c2f000-7f38d4c35000 rw-p 00000000 00:00 0
7f38d4c35000-7f38dd426000 r-xp 00000000 fd:00 10623566
7f38dd426000-7f38dd625000 ---p 087f1000 fd:00 10623566
7f38dd625000-7f38dd626000 r--p 087f0000 fd:00 10623566
7f38dd626000-7f38dd627000 rw-p 087f1000 fd:00 10623566
```

```
7f38e3757000-7f38e376d000 r-xp 00000000 fd:00 10623577
7f38e376d000-7f38e396d000 ---p 00016000 fd:00 10623577
7f38e396d000-7f38e396e000 rw-p 00016000 fd:00 10623577
7f38e396e000-7f38e3971000 rw-p 00000000 00:00 0
7f38e3971000-7f38e39d7000 r-xp 00000000 fd:00 10623589
7f38e39d7000-7f38e3bd6000 ---p 00066000 fd:00 10623589
7f38e3bd6000-7f38e3bde000 rw-p 00065000 fd:00 10623589
7f38e3bde000-7f38e3be1000 rw-p 00000000 00:00 0
7f38e3be1000-7f38e557a000 r-xp 00000000 fd:00 10623605
```

```
/oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_srv64
/oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_srv64
/oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_srv64
```

[heap]

[stack:23574]

[stack:4173]

```
/usr/lib64/libnss_dns-2.17.so
/usr/lib64/libnss_dns-2.17.so
/usr/lib64/libnss_dns-2.17.so
/usr/lib64/libnss_dns-2.17.so
/usr/lib64/libnuma.so.1
/usr/lib64/libnuma.so.1
/usr/lib64/libnuma.so.1
/usr/lib64/libnuma.so.1
/usr/lib64/libnuma.so.1
/usr/lib64/libnss_nis-2.17.so
/usr/lib64/libnss_nis-2.17.so
/usr/lib64/libnss_nis-2.17.so
/usr/lib64/libnss_nis-2.17.so
/usr/lib64/libnss_files-2.17.so
/usr/lib64/libnss_files-2.17.so
/usr/lib64/libnss_files-2.17.so
/usr/lib64/libnss_files-2.17.so
```

```
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libociei.so
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libociei.so
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libociei.so
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libociei.so
```

```
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libodbcinst.so.2
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libodbcinst.so.2
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libodbcinst.so.2
```

```
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libodbc.so.2
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libodbc.so.2
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libodbc.so.2
```

```
/oams/CIP_LX_ORA_JB1/aaahome/lib64/Linux/libicudata.so.62
```

```

7f38e557a000-7f38e557b000 r--p 01998000 fd:00 10623605
7f38e557b000-7f38e5872000 r-xp 00000000 fd:00 10623533
7f38e5872000-7f38e5873000 ---p 002f7000 fd:00 10623533
7f38e5873000-7f38e5882000 r--p 002f7000 fd:00 10623533
7f38e5882000-7f38e5884000 rw-p 00306000 fd:00 10623533
7f38e5884000-7f38e5885000 rw-p 00000000 00:00 0
7f38e5885000-7f38e5a6c000 r-xp 00000000 fd:00 10623523
7f38e5a6c000-7f38e5a6d000 ---p 001e7000 fd:00 10623523
7f38e5a6d000-7f38e5a80000 r--p 001e7000 fd:00 10623523
7f38e5a80000-7f38e5a81000 rw-p 001fa000 fd:00 10623523
7f38e5a81000-7f38e5a83000 rw-p 00000000 00:00 0
7f38e5a83000-7f38e5f0f000 r-xp 00000000 fd:00 10623547
7f38e5f0f000-7f38e5f10000 ---p 0048c000 fd:00 10623547
7f38e5f10000-7f38e5f4d000 r--p 0048c000 fd:00 10623547
7f38e5f4d000-7f38e5f55000 rw-p 004c9000 fd:00 10623547
7f38e5f55000-7f38e5f70000 rw-p 00000000 00:00 0
7f38e5f70000-7f38e64a4000 r-xp 00000000 fd:00 10623511
7f38e64a4000-7f38e66a3000 ---p 00534000 fd:00 10623511
7f38e66a3000-7f38e66db000 r--p 00533000 fd:00 10623511
7f38e66db000-7f38e6718000 rw-p 0056b000 fd:00 10623511
7f38e6718000-7f38e671a000 rw-p 00000000 00:00 0
7f38e671a000-7f38e6aa0000 r-xp 00000000 fd:00 10623535
7f38e6aa0000-7f38e6caf000 ---p 00395000 fd:00 10623535
7f38e6caf000-7f38e6cb6000 r--p 00395000 fd:00 10623535
7f38e6cb6000-7f38e6ccb000 rw-p 0039c000 fd:00 10623535
7f38e6ccb000-7f38e6ccb000 rw-p 00000000 00:00 0

```

From <<https://superuser.com/questions/310199/how-to-see-the-currently-loaded-shared-objects-in-linux>>

```

try{
 Set<String> libs = newHashSet<String>();
 StringmapsFile = "/proc/self/maps";
 BufferedReader reader = newBufferedReader(newFileReader(mapsFile));
 Stringline;
 while((line = reader.readLine()) != null) {
 if(line.endsWith(".so")){
 intn = line.lastIndexOf(" ");
 libs.add(line.substring(n + 1));
 }
 }
 Log.d("Ldd", libs.size() + " libraries:");
 for(Stringlib : libs) {
 Log.d("Ldd", lib);
 }
} catch(FileNotFoundException e) {
 // Do some error handling...} catch(IOException e) {
 // Do some error handling...}

```

=====

```

D/Ldd(11286): 55libraries:
D/Ldd(11286): /system/lib/libc.soD/Ldd(11286): /system/lib/libdbus.soD/Ldd(11286): /system/lib/librpc.soD/Ldd(11286):
/system/lib/libEGL.soD/Ldd(11286): /system/lib/libstagefright_color_conversion.soD/Ldd(11286): /system/lib/libmedia.soD/Ldd(11286):
/system/lib/libemoji.soD/Ldd(11286): /system/lib/libcrypto.soD/Ldd(11286): /system/lib/libstagefright_avc_common.soD/Ldd(11286):
/system/lib/libnativehelper.soD/Ldd(11286): /system/lib/libskiagl.soD/Ldd(11286): /system/lib/libopencore_player.soD/Ldd(11286):
/system/lib/libjpeg.soD/Ldd(11286): /system/lib/libsurfaceflinger_client.soD/Ldd(11286): /system/lib/libstagefright.soD/Ldd(11286):
/system/lib/libdrm1.soD/Ldd(11286): /system/lib/libdvm.soD/Ldd(11286): /system/lib/libwebcore.soD/Ldd(11286): /system/lib/libGLESv1
_CM.soD/Ldd(11286): /system/lib/libhardware.soD/Ldd(11286): /system/lib/libexif.soD/Ldd(11286): /system/lib/libgps.soD/Ldd(11286):
/system/lib/liblog.soD/Ldd(11286): /system/lib/libexpat.soD/Ldd(11286): /system/lib/libopencore_common.soD/Ldd(11286):
/system/lib/libbluedroid.soD/Ldd(11286): /system/lib/libm.soD/Ldd(11286): /system/lib/libcui18n.soD/Ldd(11286):
/system/lib/libomx_amrenc_sharedlibrary.soD/Ldd(11286): /system/lib/libwpa_client.soD/Ldd(11286): /system/lib/libstdc++.soD/Ldd(11286):
/system/lib/libandroid_runtime.soD/Ldd(11286): /system/lib/libz.so

```

From <<https://stackoverflow.com/questions/8744316/check-loaded-shared-libraries-from-another-shared-library-on-linux-android>>



## Oracle - Enabling trace and analysis through tkprof

Wednesday, June 15, 2022 5:20 PM

```
SQL> execute dbms_session.session_trace_enable(waits=>true);
```

PL/SQL procedure successfully completed.

```
SQL> alter table t2 modify constraint t2_fk_t1 enable validate;
```

Table altered.

```
SQL> execute dbms_session.session_trace_disable;
```

PL/SQL procedure successfully completed.

```
SQL> select tracefile from v$process where addr = (select paddr from v$session where sid = (select sid from v$mystat where rownum = 1));
```

TRACEFILE

```

/u02/app/oracle/diag/rdbms/or32/or32/trace/or32_ora_22353.trc
```

1 row selected.

```
SQL> host tkprof /u02/app/oracle/diag/rdbms/or32/or32/trace/or32_ora_22353.trc temp.prf sort=\(exeela, fchela)
```

TKPROF: Release 12.1.0.2.0 - Development on Mon Jan 29 19:26:02 2018

Copyright (c) 1982, 2014, Oracle and/or its affiliates. All rights reserved.

```
SQL> ed temp.prf
```

The key thing in the tkprof in my case (search for the table name in upper case if necessary) is this:

```
select /*+ all_rows ordered dynamic_sampling(2) */ A.rowid, :1, :2,
```



from

```
"TEST_USER"."T2" A , "TEST_USER"."T1" B where("A".OBJECT_ID" is not null)
```

```
and("B".OBJECT_ID" (+)= "A".OBJECT_ID") and("B".OBJECT_ID" is null)
```

| call    | count | cpu  | elapsed | disk | query  | current | rows |
|---------|-------|------|---------|------|--------|---------|------|
| Parse   | 1     | 0.00 | 0.00    | 0    | 0      | 0       | 0    |
| Execute | 1     | 0.00 | 0.00    | 0    | 0      | 0       | 0    |
| Fetch   | 1     | 5.70 | 5.77    | 8465 | 350707 | 0       | 0    |
| total   | 3     | 5.70 | 5.77    | 8465 | 350707 | 0       | 0    |

Misses in library cache during parse: 1

Misses in library cache during execute: 1

Optimizer mode: ALL\_ROWS

Parsing user id: SYS (recursive depth: 1)

Number of plan statistics captured: 1

Rows (1st) Rows (avg) Rows (max) Row Source Operation

```

0 0 0 NESTED LOOPS ANTI (cr=350707 pr=8465 pw=0 time=5776717 us cost=2341 size=110000 card=5000)
```

```
500000 500000 500000 TABLE ACCESS FULL T2 (cr=8345 pr=8337 pw=0 time=1350653 us cost=2271 size=8500000 card=500000)
```

```
490784 490784 490784 INDEX UNIQUE SCAN T1_PK (cr=342362 pr=128 pw=0 time=2841070 us cost=0 size=248075 card=49615)(object id 174073)
```

Elapsed times include waiting on following events:

| Event waited on          | Times | Max. Wait | Total Waited |
|--------------------------|-------|-----------|--------------|
| Disk file operations I/O | 1     | 0.00      | 0.00         |

```
db file sequential read 1 0.00 0.00
db file scattered read 71 0.00 0.01


```

The query is doing an outer join to find out if any of the rows in the child table don't have a match in the parent.

In your case I think you're more likely to see a hash join for the anti-join rather than the nested loop, and time spent on direct path reads or scattered reads, but possibly (given the sizes - your guess was probably correct) direct path writes to temp and reads from temp.

From <<https://community.oracle.com/tech/developers/discussion/4117109/re-enable-foreign-key-constraint-takes-a-long-time>>

=====

1. Logon with oracle, export ORACLE\_SID, TNS\_ADMIN, ORACLE\_HOME
2. Cd \$ORACLE\_HOME/bin
3. ./oraenv
4. sqlplus sys@int\_bjb\_tcpm as sysdba

```
SQL> host tkprof /oams/oracle/app/diag/rdbms/bjb/BJB/trace/BJB_ora_283031.trc temp.prf sort=\(exeela,fchela\);
```

```
TKPROF: Release 12.2.0.1.0 - Development on Wed Jun 15 17:16:00 2022
```

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5. SQL> ed temp.prf



From <<https://stackoverflow.com/questions/5941158/gdb-print-to-file-instead-of-stdout>>

<https://stackoverflow.com/questions/5941158/gdb-print-to-file-instead-of-stdout>

## Linux Debugging Details

[https://en.wikibooks.org/wiki/Category:Book:Linux\\_Applications\\_Debugging\\_Techniques](https://en.wikibooks.org/wiki/Category:Book:Linux_Applications_Debugging_Techniques)

break linespec thread threadno  
break linespec thread threadno if .

`break linespec` creates a ...  
linespec specifies source lines; there are several ways of writing them, but the effect is always to specify some source line. Use the qualifier 'thread *threadno*' with a breakpoint command to specify that you only want GDB to stop the program when a particular thread reaches this breakpoint. *threadno* is one of the numeric thread identifiers assigned by GDB, shown in the first column of the 'info threads' display. If you do not specify 'thread *threadno*' when you set a breakpoint, the breakpoint applies to *all* threads of your program. You can use the thread qualifier on conditional breakpoints as well; in this case, place 'thread *threadno*' before the breakpoint condition, like this:

(gdb) break ffik.c:13 thread 28 if bartab > lim

**Gdb> info break**

```
Gdb> info break
Gdb> break number
```

(gdb) b Message.cpp:112 if i == 99

(gdb) cond 3 i == 99

(gdb) cond 3

Breakpoint 3 now unconditional

```
(gdb) cond 1 strcmp(message, "earthquake") == 0
```

```
(gdb) cond 2 *p == 'r'
(gdb) cond 3 num < 0.7
```

(gdb) info break

```
(gdb) break[where] if $x == strc(x, "hello")
```

(gdb) condition <breakpoint number> \$*reg* streq(*x*, "hello")

```
$_memeq(buf1, buf2, length)
$_regex(str, regex)
$_streq(str1, str2)
$ strlen(str)
```

From <<https://stackoverflow.com/questions/4183871/how-do-i-set-a-conditional-breakpoint-in-gdb-when-char-x-points-to-a-string-wh>>

```
(gdb) b dbalib05.c:1179 if ((int)(strcmp(procedure,"get_all_ext_operation_by_id"))==0)
Breakpoint 1 at 0x10e1198: file /prod_ref/users/ha/TA/27_3.23_AX/trielea_core/src/dbalib05.c, line 1179
```

```
(gdb) b dbalib05.c:4501 if ((int)(strcmp(procedure,"del_ext_operation_by_id"))==0)
Breakpoint 2 at 0x10e9d71: file /prod/ref/users/bla/TA/27.3.23.AXX/triplea_core/src/dbalib05.c, line 4501
```

```
(gdb) b dump_route_info if(strncmp(route->rt_key_prefix, "192.168.0.2", 15) == 0) && route->rt_key.mask == 32
```

From <<https://stackoverflow.com/questions/45287838/gdb-breakpoints-with-multiple-conditions-on-non-native-types>>

```
(gdb) b DBA_Delete2 if (object == 285 && inputSt==495)
Breakpoint 2 at 0x10c9a37: DBA_Delete2 (2 locations)
```

```
(gdb) info proc mapping
```

```
0x400000 0x1fa8000 0x1ba8000 0x0 /opt/aaa/bin/Linux/aaa_srv64
0x21a8000 0x21bf000 0x17000 0x1ba8000 /opt/aaa/bin/Linux/aaa_srv64
0x21bf000 0x3b8c000 0x19cd000 0x1bbf000 /opt/aaa/bin/Linux/aaa_srv64
0x146789bf000 0x146789e02000 0x2d3000 0x4cac000 /opt/aaa/lib64/Linux/libclntsh.so.21.1
0x14678b6e000 0x146793dff000 0x87f1000 0x0 /opt/aaa/lib64/Linux/libociei.so
0x146793dff000 0x146793ff000 0x1ff000 0x87f1000 /opt/aaa/lib64/Linux/libociei.so
0x146793ffee000 0x146793ff000 0x1000 0x87ff0000 /opt/aaa/lib64/Linux/libociei.so
0x146793ff000 0x146794000000 0x1000 0x87f1000 /opt/aaa/lib64/Linux/libociei.so
0x14679924f000 0x146799254000 0x5000 0x0 /usr/lib64/libnss_dns-2.26.so
0x146799254000 0x146799453000 0x1ff000 0x5000 /usr/lib64/libnss_dns-2.26.so
0x146799453000 0x146799454000 0x1000 0x4000 /usr/lib64/libnss_dns-2.26.so
0x146799454000 0x146799455000 0x1000 0x5000 /usr/lib64/libnss_dns-2.26.so
```

```

0x146799455000 0x14679945f000 0xa000 0x0 /usr/lib64/libnuma.so.1
0x14679945f000 0x14679965e000 0x1ff000 0xa000 /usr/lib64/libnuma.so.1
0x14679965e000 0x14679965f000 0x1000 0x9000 /usr/lib64/libnuma.so.1
0x14679965f000 0x146799660000 0x1000 0xa000 /usr/lib64/libnuma.so.1
0x146799660000 0x14679966b000 0xb0000 0x0 /usr/lib64/libnss_files-2.26.so

From <http://rd.temenosgroup.com/secure/attachment/225145/180821_crash_analysis.txt>
=====
b <line_number> ; insert breakpoint
c ; run up to the breakpoint
del <breakpoint_number> ; remove breakpoint
=====
directory
 Reset the source path to its default value ('$cdir:$ cwd' on Unix systems). This requires confirmation.
set directories path-list
 Set the source path to path-list. '$cdir:$ cwd' are added if missing.
show directories
 Print the source path: show which directories it contains.
set substitute-path from
 Define a source path substitution rule, and add it at the end of the current list of existing substitution rules. If a rule with the same from was already defined, then the old rule is also deleted.
 For example, if the file /foo/bar/baz.c was moved to /mnt/cross/baz.c, then the command
 (gdb) set substitute-path /foo/bar /mnt/cross
 will tell GDB to replace '/foo/bar' with '/mnt/cross', which will allow GDB to find the file baz.c even though it was moved.
 In the case when more than one substitution rule have been defined, the rules are evaluated one by one in the order where they have been defined. The first one matching, if any, is selected to perform the substitution.
 For instance, if we had entered the following commands:
 (gdb) set substitute-path /usr/src/include /mnt/include
 (gdb) set substitute-path /usr/src /mnt/src
 GDB would then rewrite /usr/src/include/defs.h into /mnt/include/defs.h by using the first rule. However, it would use the second rule to rewrite /usr/src/lib/foo.c into /mnt/src/lib/foo.c.
unset substitute-path [path]
 If a path is specified, search the current list of substitution rules for a rule that would rewrite that path. Delete that rule if found. A warning is emitted by the debugger if no rule could be found.
 If no path is specified, then all substitution rules are deleted.
show substitute-path [path]
 If a path is specified, then print the source path substitution rule which would rewrite that path, if any.
 If no path is specified, then print all existing source path substitution rules.

From <https://sourceware.org/gdb/onlinedocs/gdb/Source-Path.html>
=====
```

```

[root@ip-100-64-96-214 bin]# systemctl status tap
● tap.service - Starting Financial Servers
 Loaded: loaded (/etc/systemd/system/tap.service; enabled; vendor preset: disabled)
 Active: active (running) since Wed 2021-08-18 21:04:25 UTC; 9h ago
 Main PID: 2552 (sh)
 CGroup: /system.slice/tap.service
 ├─2552 /bin/sh /opt/aaa/std_admin/scripts/bootup_srv.sh /opt/aaa/aaa SRV64 -Sip_100_64_96_214_XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 └─2565 /opt/aaa/bin/Linux/aaa_srv64 -Sip_100_64_96_214_214

Aug 18 21:04:18 ip-100-64-96-214.eu-west-1.compute.internal systemd[1]: Starting Starting Financial Servers...
Aug 18 21:04:18 ip-100-64-96-214.eu-west-1.compute.internal bash[2361]: 18_08_2021 21:04:18 Begin of script /opt/aaa/std_admin/scripts/start_allsrv.sh
Aug 18 21:04:18 ip-100-64-96-214.eu-west-1.compute.internal bash[2361]: 18_08_2021 21:04:18 Clean-Up log files older than 30 days in /opt/aaa/std_admin/log/start_allrv
Aug 18 21:04:18 ip-100-64-96-214.eu-west-1.compute.internal bash[2361]: 18_08_2021 21:04:18 Start Triple'A server fast ip_100_64_96_214_
Aug 18 21:04:25 ip-100-64-96-214.eu-west-1.compute.internal bash[2361]: 18_08_2021 21:04:25 Triple'A open server ip_100_64_96_214_status : ACTIVATED
Aug 18 21:04:25 ip-100-64-96-214.eu-west-1.compute.internal bash[2361]: 18_08_2021 21:04:25 End of script /opt/aaa/std_admin/scripts/start_allrv.sh with code 0 log...m18s.log
Aug 18 21:04:25 ip-100-64-96-214.eu-west-1.compute.internal systemd[1]: Started Starting Financial Servers.
Hint: Some lines were ellipsized, use -l to show in full.
```

From <[http://rd.temenosgroup.com/secure/attachment/225145/180821\\_crash\\_analysis.txt](http://rd.temenosgroup.com/secure/attachment/225145/180821_crash_analysis.txt)>

<https://github.com/google/sanitizers>  
<https://github.com/google/sanitizers/wiki/AddressSanitizerLeakSanitizer>

## AddressSanitizerAndDebugger

Q: I've built my shared library with ASan. Can I run it with unsanitized executable?

A: Yes! You'll need to build your library with dynamic version of ASan and then run executable with LD\_PRELOAD=path/to/asan/runtime/lib.

Q: Can I run AddressSanitizer with more aggressive diagnostics enabled?

A: Yes! In particular you may want to enable

```
CFLAGS += -fsanitize-address-use-after-scope
ASAN_OPTIONS=strict_string_checks=1:detect_stack_use_after_return=1:check_initialization_order=1:strict_init_order=1
```

Q: My library crashes with SIGABRT while calling free. What's going wrong?

A: Most probably you are dlopening your library with RTLD\_DEEPBIND flag. ASan doesn't support RTLD\_DEEPBIND, see issue #611 for details.

Q: I'm getting following error when building my code: gcc: error: cannot specify -static with -fsanitize=address.

A: ASan doesn't work with static linkage. You need to disable static linkage in order to use ASan on your code.

## AddressSanitizerAndDebugger

You can use gdb with binaries built by AddressSanitizer in a usual way. When AddressSanitizer finds a bug it calls one of the functions \_\_asan\_report\_{load,store}{1,2,4,8,16} which in turn calls \_\_asan::ReportGenericError. If you want gdb to stop before asan reports an error, set a breakpoint on \_\_asan::ReportGenericError. If you want gdb to stop after asan has reported an error, set a breakpoint on \_\_sanitizer::Die or use ASAN\_OPTIONS=abort\_on\_error=1.

Inside gdb you can ask asan to describe a memory location:

```
(gdb) set overload-resolution off
(gdb) p __asan_describe_address(0x7ffff73c3f80)
0x7ffff73c3f80 is located 0 bytes inside of 10-byte region [0x7ffff73c3f80,0x7ffff73c3f8a)
freed by thread T0 here:
```

## Sanitizer steps

Hello,  
no this is not these files I expect.  
I need messages from sanitizer.  
Is assume that all has been done properly, but to be sure I recap steps to succeed with sanitizer:

- 1 stop all servers
- 2 sanitizer executable must be used (copy aaa\_srv64.sanitizer to aaa\_srv64)
- Add ASAN\_OPTIONS definition in aaaprofile
  - o ASAN\_OPTIONS="halt\_on\_error=false:log\_path=sanit\_fin.trc"
  - o export ASAN\_OPTIONS
- start all server
- run the test case
- One file named sanit\_fin.trc.pid must be generated for each sever. It contains all sanitizer messages. It is these files I'm waiting for.

During my test generation of files based on log\_path definition was not working all sanitizer message were written in stdot. I create a new start\_srv.sh that redirect stdot and stderr into a file stored in \$AAAHOME/msg. File name pattern is aaa\_srv64.sanitizer.SERVERNAME.pid.  
If client is facing the same issue he must backup original star\_srv.sh (from \$AAAHOME/std\_admin/scripts) and place the new one in this location. I attached the new script to this mail. Then it is these files that I expect.

```
=====
if [$FOREVER -eq 0]; then
 $ECHO "\n$date +"%d_%m_%Y %H:%M:%S"" Starting Triple'A open server $SERVERNAME in background fast mode= $FAST" | tee -a $LOGFILE
 cd $AAAHOME/msg
 nohup $AAAHOME/$AAAPRG SRV$BITS -$SERVERNAME XXXXXXXXXXXXXXXXXXXXXXXXX-U$APPL_OWNER $AAA_SRV_PASSWD >$AAAHOME/msg/aaa_srv64.sanitizer.$SERVERNAME.$$ 2>&1 &
else
 $ECHO "\nStarting Triple'A open server $SERVERNAME in FOREVER Mode" | tee -a $LOGFILE
 cd $AAADMIN_DIR/scripts
 nohup ./forever.sh $AAAHOME/$AAAPRG SRV$BITS -$SERVERNAME XXXXXXXXXXXXXXXXXXXXXXXXX >$AAAHOME/msg/aaa_srv64.sanitizer.$SERVERNAME.$$ 2>&1 &
fi
```

```
export ASAN_OPTIONS=verify_asan_link_order=0:detect_odr_violation=0
=====
```

aaaprofile:

```
export DEBUG=asan
export DEBUG_SERVICE=aaa_srv64

shutdown fin server (preferably stop OCS first)
```

To find files from \$AAAHOME

```
find . -name "asan_log*"
grep -r --include "*.log" Sanitizer
grep -r --include "nohup.out" Sanitizer
```

```
=====
Gdb installation in vm server
```

1. Login to vm
2. sudo yum install centos-release-scl-rh
3. sudo yum install devtoolset-7-gdb
4. scl enable devtoolset-7 bash
5. yum makecache fast

```
tapt24@bnglxscb01.temenosgroup.com:/oams/sd_e2e_env/aaa/current/bin/Linux> sudo yum debuginfo-install glibc
Updating Subscription Management repositories.
Red Hat Enterprise Linux 8 for x86_64 - BaseOS (RPMs) 72 kB/s | 4.1 kB 00:00
Red Hat Enterprise Linux 8 for x86_64 - AppStream (RPMs) 76 kB/s | 4.5 kB 00:00
Could not find debuginfo package for the following installed packages: glibc-2.28-251.el8_10.11.i686, glibc-2.28-251.el8_10.11.x86_64
Dependencies resolved.
Nothing to do.
```

```
Complete!
tapt24@bnglxscb01.temenosgroup.com:/oams/sd_e2e_env/aaa/current/bin/Linux> sudo yum install -y yum-utils
Updating Subscription Management repositories.
Red Hat Enterprise Linux 8 for x86_64 - BaseOS (RPMs) 70 kB/s | 4.1 kB 00:00
Red Hat Enterprise Linux 8 for x86_64 - AppStream (RPMs) 72 kB/s | 4.5 kB 00:00
Package yum-utils-4.0.21-25.el8.noarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

```
=====
Windows installation of LLVM and ninja
```

<https://confluence.temenos.com/display/DEVWIKI/Triple%27A+Sanitizer+debugging>

<https://confluence.temenos.com/pages/viewpage.action?pageId=37127898>



# Oracle: xdk demo installation

24 November 2024 22:01

[http://www.asktheway.org/official-documents/oracle/B19306\\_01/appdev.102/b14252/adx\\_c\\_parser.htm](http://www.asktheway.org/official-documents/oracle/B19306_01/appdev.102/b14252/adx_c_parser.htm)

# AIX memory system check

Friday, February 4, 2022 2:27 PM

root 36635012 1 0 00:00:03 - 0:10 /usr/bin/topas\_nmon -f -t -s 300 -c 288 -youtput\_dir=/var/log/nmon/laulpar03 -ystart\_time=00:00:02,Feb03,2022

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22010300408>>

# Thread and Synchronization

Sunday, November 14, 2021 5:49 PM

<https://www.cs.cmu.edu/afs/cs/academic/class/15492-f07/www/pthreads.html>

Enable multithread in gui

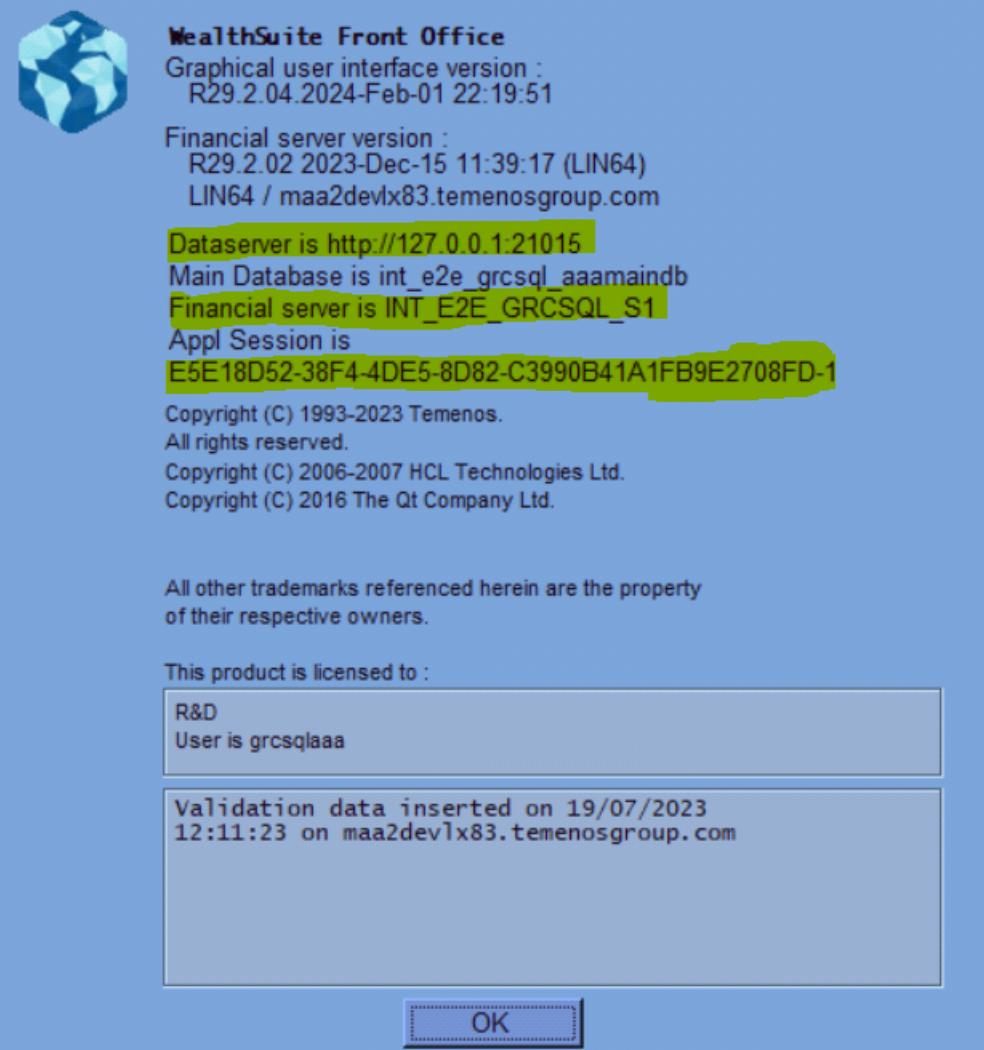
**AAAMULTITHREAD=TRUE**

# Proxy user setup - development, gui installation

02 February 2024 09:45

```
AAACOMPANY=Odyssey
AAAHOME=C:\TripleA\INT_E2E_GRCSQL
AAABIN=C:\TripleA\INT_E2E_GRCSQL\BIN
AAAOIT=C:\TripleA\INT_E2E_GRCSQL\OIT
AAAMSG=C:\TripleA\INT_E2E_GRCSQL\MSG
AAAREP=C:\TripleA\INT_E2E_GRCSQL\REPORT
AAAGUIICONS=C:\TripleA\INT_E2E_GRCSQL\guiicons
AAA_LOG4CPLUS=C:\TripleA\INT_E2E_GRCSQL\CONFIG\log4cplus.properties
ND_PATH=C:\TripleA\INT_E2E_GRCSQL\ND
ND_DRAWOPT=DITHERNONE
ICU_TIMEZONE_FILES_DIR=C:\TripleA\INT_E2E_GRCSQL\BIN
LANG=default
AAASCIPT_DISPLAY=TRUE
AAAREPORTSTDOUT=1
AAAREPORTSTDERR=1
AAASECUREREPORTS=1
AAAMDPATH=NO,C:\TEMP
ASAN_OPTIONS=halt_on_error=false:log_path=log
AAA_RDBMS=PROXY
DSQUERY=http://10.93.5.218:53010
ND_NATIVEMENU=TRUE
AAAMDI=TRUE
```

DatabaseMode: PROXY  
ServerURL: <http://10.93.5.218:53010>



=====

AAACOMPANY=Odyssey  
AAAHOME=C:\TripleA\TRAINING  
AAABIN=C:\TripleA\TRAINING\BIN  
AAAOIT=C:\TripleA\TRAINING\OIT  
AAAMSG=C:\TripleA\TRAINING\MSG  
AAAREP=C:\TripleA\TRAINING\REPORT  
AAAGUIICONS=C:\TripleA\TRAINING\guiicons  
AAA\_LOG4CPLUS=C:\TripleA\TRAINING\CONFIG\log4cplus.properties  
ND\_PATH=C:\TripleA\TRAINING\ND  
ND\_DRAWOPT=DITHERNONE  
ICU\_TIMEZONE\_FILES\_DIR=C:\TripleA\TRAINING\BIN  
LANG=default  
AAASCIPT\_DISPLAY=TRUE  
AAAREPORTSTDOUT=1  
AAAREPORTSTDERR=1  
AAASECUREREPORTS=1  
AAAMDPATH=NO,C:\TEMP  
ASAN\_OPTIONS=halt\_on\_error=false:log\_path=log  
AAA\_RDBMS=SYBASE  
SYBASE=C:\TripleA\TRAINING\SYBASE  
AAALOGINDB=aaalogindb

**DSQUERY=TRAINING**

ND\_NATIVEMENU=TRUE

AAAMDI=TRUE

# TSL precomp - pool configuration

Monday, November 15, 2021 7:55 PM

Otf-shell

>config

Lists all the folders of the configuration

Goto that folder and get the details of the queues

The screenshot shows a Swagger UI interface for a 'Jobs' resource. The 'GET /sysop/api/v1.0.0/sysop/jobBatch/{id}' endpoint is selected. A parameter 'id' is defined with type 'integer(\$int64)' and path '(path)'. The value '12217455' is entered into the input field. Below the interface is a curl command:

```
curl -X GET "http://abtestpoc.westeurope.cloudapp.azure.com:80/sysop/api/v1.0.0/sysop/jobBatch/12217455" -H "accept: application/json"
```

temenos

## Log files

- External storage (survive to container restart)  
storage account: f0e67e1cf08024a8e9afaf | File shares
- Access from the pod  
i.e:  
kubectl exec -it tap-core-856c6c8d-2zl5l -- bash  
cd msg  
cd /log/tap-core

```

"cloudName": "AzureCloud",
"homeTenantId": "d5d2540f-f60a-45ad-86a9-e2e792ee6669",
"id": "b0eff7e-c36c-4225-96b6-d26ac63cb702",
"isDefault": true,
"managedByTenants": [],
"name": "EUR: ABN AMRO: TAP POC",
"state": "Enabled",
"tenantId": "d5d2540f-f60a-45ad-86a9-e2e792ee6669",
"user": {
 "name": "pgalley@temenos.com",
 "type": "user"
},
{
 "cloudName": "AzureCloud",
"homeTenantId": "d5d2540f-f60a-45ad-86a9-e2e792ee6669",
"id": "29d6165d-hacc-46f1-a5cd-c3a124b9dc52",
"isDefault": false,
"managedByTenants": [],
"name": "TC: INT: WEALTH: Hyperscale POC",
"state": "Enabled",
"tenantId": "d5d2540f-f60a-45ad-86a9-e2e792ee6669",
"user": {
 "name": "pgalley@temenos.com",
 "type": "user"
},
{
 "cloudName": "AzureCloud",
"homeTenantId": "d5d2540f-f60a-45ad-86a9-e2e792ee6669",
"id": "530da05b-ec10-407e-adf2-f7e557e6315b",
"isDefault": false,
"managedByTenants": [],
"name": "Cloud Technology Solutions",
"state": "Enabled",
"tenantId": "d5d2540f-f60a-45ad-86a9-e2e792ee6669",
"user": {
 "name": "pgalley@temenos.com",
 "type": "user"
}
}
]
PS C:\Users\pgalley> az account set --subscription "EUR: ABN: ABN AMRO: TAP POC"
PS C:\Users\pgalley> kubectl get nodes
NAME STATUS ROLES AGE VERSION
aks-nodepool1-15650734-vms000000 Ready agent 63d v1.21.9
PS C:\Users\pgalley> kubectl get pods
NAME READY STATUS RESTARTS AGE
tap-core-856c68d-2z151 1/1 Running 1 5d18h
tap-fusion-5f497dd685-dsnbc 1/1 Running 0 5d18h
tap-prec-5df66cbf56-n4fs9 1/1 Running 0 5d18h
tap-sysop-5b899c564d-7xk52 1/1 Running 0 5d18h
tap-web-5d8fc97b79-2nhrd 1/1 Running 0 5d18h
PS C:\Users\pgalley> ■

```

```

git
$ C:\Users\pgalley> kubectl get pods
NAME READY STATUS RESTARTS AGE
AWE READY STATUS RESTARTS AGE
ap-core-856c68d-2z151 1/1 Running 1 5d19h
ap-fusion-5f497dd685-dsnbc 1/1 Running 0 5d19h
ap-prec-5df66cbf56-n4fs9 1/1 Running 0 5d19h
ap-sysop-5b899c564d-7xk52 1/1 Running 0 5d19h
ap-web-5d8fc97b79-2nhrd 1/1 Running 0 5d19h
$ C:\Users\pgalley> kubectl get deployment
NAME READY UP-TO-DATE AVAILABLE AGE
ap-core 1/1 1 1 61d
ap-fusion 1/1 1 1 63d
ap-prec 1/1 1 1 62d
ap-sysop 1/1 1 1 63d
ap-web 1/1 1 1 63d
$ C:\Users\pgalley> ■

```

## Gateway Pack & References

Thursday, April 30, 2020 9:27 AM

Saturday, November 24, 2018

11:22 PM  
[http://wiki.temenosgroup.com/display/DEVWIKI/Gwp\\_TG\\_1350\\_ConfigFiles](http://wiki.temenosgroup.com/display/DEVWIKI/Gwp_TG_1350_ConfigFiles) - Contains the details of all the gateway pack configuration file and the details of each file

/oams/gwpackt8413\_1512/wtx\_launcher/bin/launcher/oams/gwpackt8413\_1512/wtx\_launcher/GWPACK\_HOME/systems/GWPACK\_Position.msl -s7800.7801.7802 -d'./oams/gwpackt8413\_1512/wtx\_launcher/logs/CompoundSystem12-02-18-05-49-04-AM.log'-L'./oams/gwpackt8413\_1512/wtx\_launcher/logs/CompoundSystem12-02-18-05-49-04-AM.txt'

### 1. Create a Map using WTX Design Studio

<http://wiki.temenosgroup.com/display/DEVWIKI/Create+a+Map+using+WTX+Design+Studio>

Creating a map using WTX Design Studio

Note: Before carrying this out, you will need WTX Launcher for Windows and an instance of your target Triple A environment installed on your local VDI and Gateway for Windows installed.

Make sure that a project is set up, if not create one from File-New-Project

Run cmd prompt on Windows

Navigate to your Type Tree Builder folder (example: C:\TripleA\VAL\_GEN\_XX\Gateway\Type Tree Builder)

Run command : [BuildSubDTT]->your entity of choice> VAL\_GEN\_XX\* UT\*-8. The subscription type tree will now be built.

You can check the newly built sub<entity>-type tree in the Builted Type Trees folder found in C:\TripleA\VAL\_GEN\_XX\Gateway

In WTX Design Studio: with your project open, right-click on Map Files and select New->Map Source and name the map as <map\_name>.mms

With the Map Source created, click on it and right-click on the map from the Outline screen and right-click->New... to create a new map

Input and Output cards:

Click on the newly created map: right-click on the L/H side of the map area that makes up the main workspace and select New Input Card

This will bring up the New input Card pop up. Define the parameters as follows:

Card Name: Name of input

Type Tree: Select the type tree built

Type: Expand the sub<entity>-mmt and select the type trees File

File Path: name of the file (example ln)

Now create the Output card: right-click on the R/H side of the workspace and select New Output Card

Define the parameters as above and for the Output Cards [FilePath], name it as <outputname>.txt

Now build the map for the platform the unix based TA environment is based

Right-click on the map and select Build For Specific Platform...

Pick your chosen platform (AIX, SUN etc)

The new map will be located in your WTX workspace folder (eg. C:\Documents and Settings\ady\IBM\WTX\Workspace\Gateway) and will typically be called sub<entity\_name>-<platform\_name>. for example: subportfolio.aix

Copy this map to your unix TA environment using an FTP program, for example: copy it to: /oams/VAL\_GEN\_50/testgateway/maps

Also copy the newly updated attribute file (found in your C:\TripleA\VAL\_GEN\_XX\Gateway\lookups folder) to your Gateway\Config folder. For example: /oams/VAL\_GEN\_50/testgateway/config. Make sure that the transfer type is ASCII/Text

### 2. Create a Map in Triple A GUI

a. <http://wiki.temenosgroup.com/display/DEVWIKI/Create+a+Map+in+TripleA+GUI>

b. Set parameters as follows:

c. Code: name of your map

d. Denomination: Description of the map

e. Entity: The entity that was defined when building the Type Trees and maps in WTX Design Studio

f. Storage: define where the map is stored (eg where you transferred it to on the TA unix environment from your WTX project workspace - /oams/VAL\_GEN\_50/testgateway/maps/portmap.aix)

g. Click on the Save button and OK to close

3. <http://wiki.temenosgroup.com/pages/viewpage.action?pageId=41389044>

a. Gatt install & debug

4. [http://wiki.temenosgroup.com/display/DEVWIKI/Gwp\\_IS\\_1350\\_F2BActivation](http://wiki.temenosgroup.com/display/DEVWIKI/Gwp_IS_1350_F2BActivation)

a. From to Back Activation

5. <http://wiki.temenosgroup.com/pages/viewpageattachments.action?pageId=3440816&metadataLink=true>

a. Gateway Pack - Modelling Constraint

6. <http://wiki.temenosgroup.com/display/DEVWIKI/Installing+WTX+Design+Studio>

a. Installing WTX Design Studio

7. <http://wiki.temenosgroup.com/display/DEVWIKI/mapDebugger>

a. Transverse Tool : mapDebugger

8. <http://wiki.temenosgroup.com/display/DEVWIKI/WTX+->GATEWAY+Migration++Type+Tree+Builder>

a. WTX - GATEWAY Migration - Type Tree Builder

9. [http://wiki.temenosgroup.com/display/DEVWIKI/WTX8\\_2\\_HowTo](http://wiki.temenosgroup.com/display/DEVWIKI/WTX8_2_HowTo)

10. [http://wiki.temenosgroup.com/display/DEVWIKI/WTX8\\_2GeneralGuidelines](http://wiki.temenosgroup.com/display/DEVWIKI/WTX8_2GeneralGuidelines)

11. [http://wiki.temenosgroup.com/display/DEVWIKI/WTX8\\_2Glossary](http://wiki.temenosgroup.com/display/DEVWIKI/WTX8_2Glossary)

12. [http://wiki.temenosgroup.com/display/DEVWIKI/WTX8\\_2Impacts](http://wiki.temenosgroup.com/display/DEVWIKI/WTX8_2Impacts)

Complete link to all the wtx, gwp services

[Message Oriented Middleware - R&D Products & Components - Confluence PROD \(temenos.com\)](Message Oriented Middleware - R&D Products & Components - Confluence PROD (temenos.com))

PMSTA-23090 -

Import with external\_seq\_no lower than the one stored in TAP, returns WRN with native import and ERR with online import

From <http://rd.temenosgroup.com/browse/PMSTA-23090>

dev@laukgwp:/oams/d\_if\_lx4/aaa/current/gateway/maps/Linux \$ AAAHOME/aaa IMP -Ud\_if\_lx4aaa -Pd\_if\_lx4aaad\_if\_lx4aaa < ins5.imp

MSG AAAHOME is /oams/d\_if\_lx4/aaa/current

MSG Executing /oams/d\_if\_lx4/aaa/current/bin/Linux/aaa\_imp64 -Ud\_if\_lx4aaa

MSG d\_if\_lx4aaa, laulkwp, 2016/04/18 13:36:08, <stdin>:0 : opening <stdin>

SET DATEFORMAT DD-MM-YYYY:HH:II:SS

SET DATAFORMAT DELIMITED

SET SEPARATOR ;

SET THOUSAND ,

CMD INSUPD instrument

ATT code nature: e external\_seq\_no

SUC TEST\_SEQ:1;5

MSG d\_if\_lx4aaa, laulkwp, 2016/04/18 13:36:08, <stdin>:10 : closing <stdin>

dev@laukgwp:/oams/d\_if\_lx4/aaa/current/gateway/maps/Linux

dev@laukgwp:/oams/d\_if\_lx4/aaa/current/gateway/maps/Linux \$ AAAHOME/aaa IMP -Ud\_if\_lx4aaa -Pd\_if\_lx4aaad\_if\_lx4aaa < ins1.imp

MSG AAAHOME is /oams/d\_if\_lx4/aaa/current

MSG Executing /oams/d\_if\_lx4/aaa/current/bin/Linux/aaa\_imp64 -Ud\_if\_lx4aaa

MSG d\_if\_lx4aaa, laulkwp, 2016/04/18 13:37:39, <stdin>:0 : opening <stdin>

SET DATEFORMAT DD-MM-YYYY:HH:II:SS

SET DATAFORMAT DELIMITED

SET SEPARATOR ;

SET THOUSAND ,

CMD INSUPD instrument

ATT code nature: e external\_seq\_no

DAT TEST\_SEQ:1;1

WRN 55 file <stdin>, line 9: No action on modify record due to external sequence behavior

MSG d\_if\_lx4aaa, laulkwp, 2016/04/18 13:37:39, <stdin>:10 : closing <stdin>

dev@laukgwp:/oams/d\_if\_lx4/aaa/current/gateway/maps/Linux

From <http://rd.temenosgroup.com/browse/PMSTA-23090>

=====

dev@laukgwp:/oams/d\_if\_lx4/aaa/current/gateway/maps/Linux

aaa MERCATOR /oams/v\_bng\_ota\_m1/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v\_bng\_ota\_m1/aaa/current/ins.imp -OAGATIT1 'libgatit.so,DLLImpPort,'Online -Uv\_bng\_ota\_m1aaa -Pv\_bng\_ota\_m1aaav\_bng\_ota\_m1aaa'\`

AAAHOME is /oams/d\_if\_lx4/aaa/current

Executing /oams/d\_if\_lx4/aaa/current/bin/Linux/mercator.sh echogat.lnx -OAGATIT1 'libgatit.so,DLLImpPort,Online -U\_d\_if\_lx4aaa'

IBM WebSphere Transformation Extender(TM) Linux Command Server - version 8.4.1.3(14)\_64bit

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Map file: /oams/d\_if\_lx4/aaa/10.1.0/gateway/maps/Linux/echogat.lnx -OAGATIT1 'libgatit.so,DLLImpPort,Online -U\_d\_if\_lx4aaa -P\_d\_if\_lx4aaad\_if\_lx4aaa' -IF1 ins1.imp

In # 1: 1 Out # 1: 1 Time: 0:03 Auditing Data

In # 1: 1 Out # 1: 1 Time: 0:03

In # 1: 1 Out # 1: 1 Time: 0:03

Map completed (0): Map completed successfully (2.932 seconds)

=====

dev@laukgwp:3asia.temenosgroup.com:/oams/v\_txl\_23\_e2e/aaa/current> aaa MERCATOR /oams/v\_txl\_23\_e2e/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v\_txl\_23\_e2e/aaa/current/lax.imp -OAGATIT1 'libgatit.so,DLLImpPort,'Online -Uv\_txl\_23\_e2e/aaa'

'AAAHOME is /oams/v\_txl\_23\_e2e/aaa/current

Executing /oams/v\_txl\_23\_e2e/aaa/current/bin/Linux/mercator.sh echogat.lnx -OAGATIT1 'libgatit.so,DLLImpPort,Online -Uv\_txl\_23\_e2eaaa'

TAP Global Note Page 161

```
Map file: /oams/v_txl_23_e2e/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v_txl_23_e2e/aaa/current/lax.imp -OAGATIT1 'libgatit.so,DLLImpPort,Online -Uv_txl_23_e2aaa -Pv_txl_23_e2aaav_txl_23_e2aaa'
In # 1: 1 Out # 1: 1 Time: 0:03 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:03
In # 1: 1 Out # 1: 1 Time: 0:03
Map completed (0): Map completed successfully (3.127 seconds)
=====
```

dev@laulkwp:/oams/d\_if\_lx4/aaa/current/gateway/maps/Linux>

From <<http://rd.temenosgroup.com/browse/PMSTA-23090>>

```
=====
dev@laulkwp:/oams/d_if_lx4/aaa/current/gateway/maps/Linux> cat ${AAAHOME}/gateway/output/echogat.lnx.output
SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET THOUSAND ,
```

CMD INSUPD instrument

```
ATT code nature_e external_seq_no
DAT TEST_SEQ:1:1
ERR 55 No action on modify record due to external sequence behavior
dev@laulkwp:/oams/d_if_lx4/aaa/current/gateway/maps/Linux>
```

From <<http://rd.temenosgroup.com/browse/PMSTA-23090>>

=====

1. Please add the following lines in aaaprofile  
 ROLIT\_PROGRAM=536879107  
 export ROLIT\_PROGRAM  
 2. Check whether the following export lines are there in the aaaprofile. If no, please add the following lines in aaaprofile.  
 LIBOLIT=librolit.so  
 export LIBOLIT

From <<http://rd.temenosgroup.com/browse/PCC-21136>>

```
val@laurs55m:/oams/v_gen_101_2/tmp$ AAAHOME/aaa IMP -Uv_gen_101_2aaa -Pv_gen_101_2aaav_gen_101_2aaa < ins1.imp
MSG Home is /oams/v_gen_101_2/aaa/current
MSG Executing /oams/v_gen_101_2/aaa/current/bin/AIX/aaa_imp64 -Uv_gen_101_2aaa
MSG v_gen_101_2aaa, laurs55m.oams.com, 2016/05/02 14:18:41, <stdin>:0 : opening <stdin>
SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET THOUSAND ,
```

CMD INSUPD instrument

```
ATT code nature_e external_seq_no
DAT TEST_SEQ:1:1
WRN 55 file <stdin>, line 9: No action on modify record due to external sequence behavior
MSG v_gen_101_2aaa, laurs55m.oams.com, 2016/05/02 14:18:42, <stdin>:10 : closing <stdin>
dev@laulkwp:/oams/d_if_lx4/aaa/current/gateway/maps/Linux>
```

From <<http://rd.temenosgroup.com/browse/PMSTA-23090>>

```
val@laurs55m:/oams/v_gen_101_2/tmp$
http://rd.temenosgroup.com/browse/PMSTA-23090
```

```
val@laurs55m:/oams/v_gen_101_2/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v_bng_ota_m1/aaa/current/nsimp -OAGATIT1 'libgatit.so,DLLImpPort,Online -Uv_bng_ota_m1aaa -Pv_bng_ota_m1aaav_bng_ota_m1aaa'
AAAHOME is /oams/v_gen_101_2/aaa/current
Executing /oams/v_gen_101_2/aaa/current/bin/AIX/mercator.sh /oams/v_gen_101_2/aaa/current/gateway/maps/AIX/echogat.aix -IF1 /oams/v_gen_101_2/tmp/nsimp -OAGATIT1 'libgatit.so,DLLImpPort,Online -Uv_gen_101_2aaa -Pv_gen_101_2aaav_gen_101_2aaa'
```

IBM WebSphere Transformation Extender(TM) IBM(TM) RS/6000 AIX(TM) Command Server - version 8.4.1.3(14)\_64bit

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```
Map file: /oams/v_gen_101_2/aaa/current/gateway/maps/AIX/echogat.aix -IF1 /oams/v_gen_101_2/tmp/nsimp -OAGATIT1 'libgatit.so,DLLImpPort,Online -Uv_gen_101_2aaa -Pv_gen_101_2aaav_gen_101_2aaa'
In # 1: 1 Out # 1: 1 Time: 0:04 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:04
In # 1: 1 Out # 1: 1 Time: 0:04
Map completed (0): Map completed successfully (4.034 seconds)
```

val@laurs55m:/oams/v\_gen\_101\_2/tmp\$

From <<http://rd.temenosgroup.com/browse/PMSTA-23090>>

```
=====
```

```
val@laurs55m:/oams/v_gen_101_2/aaa/current/gateway/output$ cat echogat.aix.output
SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET THOUSAND ,
```

CMD INSUPD instrument

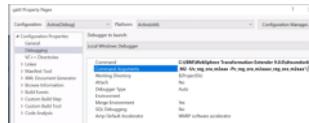
```
ATT code nature_e external_seq_no
DAT TEST_SEQ:1:1
WRN 55 No action on modify record due to external sequence behavior
val@laurs55m:/oams/v_gen_101_2/aaa/current/gateway/output$
```

From <<http://rd.temenosgroup.com/browse/PMSTA-23090>>

**Execution of online Import.**

13. If the adapter is called like that libgatit.so,DLLImpPort,Online -U sd\_90aaa -P sd\_90aaasd\_90aaa -S SD\_90\_S1 -O -B100 -m' it doesn't work

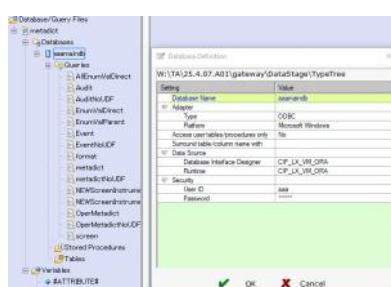
gatit execution from windows.



14. When it's called like that libgatit.so,DLLImpPort,Online -U sd\_90aaa -P sd\_90aaasd\_90aaa -S SD\_90\_S1 -m -O -B100', it works.

15. When using the same parameter with batch mode : AAAHOME/aaa IMP -Usd\_90aaa -Psd\_90aaasd\_90aaa -O -B100 -m <instr\_BIL2.imp>instr\_BIL2.out, it works

From <<http://rd.temenosgroup.com/browse/PCC-20951?iter=1>>



%DTX\_CMD% AllEnum.mmc -AE -TI ^ -ID1 ^ -SOURCE %Odbc\_Source%\ -MDQ metadict.mdq -QUERY AllEnumValDirect **T4** ^ -OF1 ..\Lookups\EnumAAA.enu ^ -B

16. Command line for starting the system GWPACK\_JMS.msl;GWPACK\_Position.msl;GWPACK\_F2B\_Return.msl;GWPACK\_HouseKeeping.msl;GWPACK\_F2B\_MM\_FX\_Return.msl; is:  
`/opt/wstdx/bin/launcher /opt/wstdx/GWPACK_HOME/systems/GWPACK_JMS.msl /opt/wstdx/GWPACK_HOME/systems/GWPACK_Position.msl /opt/wstdx/GWPACK_HOME/systems/GWPACK_F2B_Return.msl /opt/wstdx/GWPACK_HOME/systems/GWPACK_F2B_MM_FX_Return.msl -s7000.7001.7002 -d=/opt/wstdx/logs/CompoundSystem-2021-03-02-21-30-17_167ae029bc83n1.txt`

Gateway Pack Installation:

17. GWP Installation: <https://confluence.temenos.com/pages/viewpage.action?pageId=40457305>  
WTX Installation: <https://confluence.temenos.com/pages/viewpage.action?pageId=40456863>

WTX Designer & MMS files download  
<https://lausvn.temenosgroup.com/svn/devl/products/TA/tags/25.4.07/gateway/>  
[https://wealth.temenosgroup.com\\_tp\\_products/IBM/ITX.9.0/](https://wealth.temenosgroup.com_tp_products/IBM/ITX.9.0/)  
<https://lausvn.temenosgroup.com/svn/devl/products/TA/tags/25.4.07>

/cygdrive/c/IBM/WebSphere Transformation Extender 8.4.1->/dtxcmdsv4.exe -? - Open up eclipse based help document

18. Subscription Daemon:

19. Goto WTX\_HOME directory and execute the initial setup as below:

```

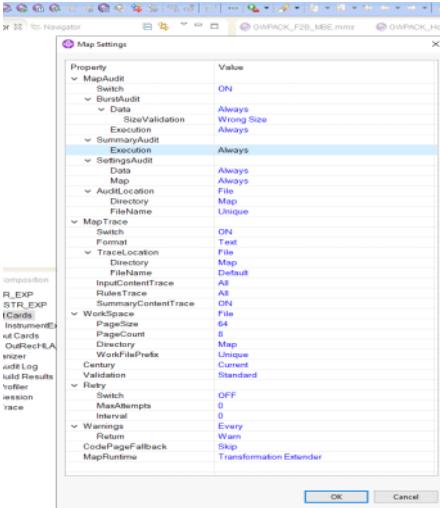
/oams/v_reg_ora_4/aaa/current-> ./users/product/bla/loclexerun.sh
/oams/v_reg_ora_4/wtx_launcher-> ./setup

DTX_HOME_DIR (IBM Transformation Extender Home Directory):
/oams/v_reg_ora_4/wtx_launcher
DTX_TMP_DIR (IBM Transformation Extender Temp Directory):
/oams/v_reg_ora_4/wtx_launcher/tmp
LD_LIBRARY_PATH:
/oams/v_reg_ora_4/wtx_launcher/libs/oams/v_reg_ora_4/wtx_launcher/odbc_drivers/lib/oams/v_reg_ora_4/wtx_launcher/GSKit/lib64/oams/v_reg_ora_4/wtx_launcher/java/bin/oams/v_reg_ora_4/wtx_launcher/java/bin/classic/oams/v_reg_ora_4/wtx_launcher/java/lib/amd64/oams/v_reg_ora_4/wtx_launcher/java/lib/amd64/classic/oams/v_reg_ora_4/aaa/current/lib/Linux/oams/v_reg_ora_4/aaa/current/nf/lib:/usr/local/lib/oams/v_reg_ora_4/aaa/current/lib64/Linux
PATH:
/oams/v_reg_ora_4/wtx_launcher/bin/oams/v_reg_ora_4/wtx_launcher/GSKit/bin/oams/v_reg_ora_4/wtx_launcher/java/bin/oams/v_reg_ora_4/ocs/current/admin/bin/oams/v_reg_ora_4/ocs/current/opt/admin/bin/oams/v_reg_ora_4/ocs/current/opt/ant/bin/bin:/usr/openwin/bin:/usr/bin:/usr/cb/etc:/usr/local/bin:/opt/CollabNet_Subversion/bin:/bin:/usr/sbin:/usr/bin:/opt/swf/bin:/usr/local/bin:/opt/VRTS/bin:/etc/vx/bin:/usr/lib/vxvm/bin:/staroffice/program:/opt/free ware/bin/tools/stable/bin:/nas/sortlib/EnvTeam/tools://bin.../oams/v_reg_ora_4/aaa/current...
CLASSPATH:
:bin

```

20. [/oams/v\\_reg\\_ora\\_4/aaa/current/bin/Linux->/aaa\\_subd -Uaaa -d 1 -h/oams/d\\_tti\\_dev9/gwpack/config/GWPACK\\_Subscription\\_Query.test.cfg-a](#) /oams/d\_tti\_dev9/gwpack/config/Subscription\_Atfile.run.att -r  
[/oams/d\\_tti\\_dev9/gwpack/config/GWPACK\\_Registry.mrc -B 0](#)

21. Map settings



```

[labdpdt@[x111srsv521] /TST/BOPX/AAA/current/gateway/maps/Linux-> _2_852_20220808_104151_610_252_batchsecuritytransfersecuritytransferin_a487d84d-e10b-4f8f-9bae-3572a7d26747.xml -OAGATIT1 \libgatit*
AAAHOME is /TST/BOPX/AAA/current
Executing /TST/BOPX/AAA/current/bin/Linux/gwp_mercator.sh echogat.lnx -IFI /TST/BOPX/AAA/current/gwpack/xml_online/20220808_104152_852_20220808_104151_610_252_batchsecuritytransfersecuritytransferin_a487d84d-e10b-4f8f-9bae-3572a7d26747.xml -OAGATIT1 'libgatit.so,DLLImpPort,Online -U aaa_dbo -0 -B100 -m'
I
IBM WebSphere Transformation Extender(TM) Linux Command Server - version 9.0.8.2(65)
Copyright 1998, 2017 IBM Corporation. All rights reserved.

Map file: /TST/BOPX/AAA/1908/gateway/maps/Linux/echogat.lnx -IFI /TST/BOPX/AAA/current/gwpack/xml_online/20220808_104152_852_20220808_104151_610_252_batchsecuritytransfersecuritytransferin_a487d84d-e10b-4f8f-9bae-3572a7d26747.xml -OAGATIT1 'libgatit.so,DLLImpPort,Online -U aaa_dbo -0 -B100 -m'
REM ICU Time Zone Data Version : 2019a 0 Time: 0:00
In # 1: 1 Out # 1: 1 Time: 0:03 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:03
In # 1: 1 Out # 1: 1 Time: 0:03
Map completed (#): Map completed successfully (3.167 seconds)

aaa MERCATOR echogat2.lnx -OAGATIT1 \libgatit.so,DLLImpPort,'Online -U aaa -P aaaaaaa'
dtxcmdsv echogat2.lnx -OAGATIT1 \libgatit.so,DLLImpPort,'Online -U aaa -P aaaaaaa'

tapt24@bnglxscb01.temenosgroup.com:/oams/sd_e2e_env/aaa/current/gateway/maps/Linux> dtxcmdsv echogat2.lnx -OAGATIT1 '\libgatit.so,DLLImpPort,'Online -U aaa -P aaaaaaa'\

IBM Transformation Extender Linux Command Server - version 10.1.1.8
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Map file: /oams/sd_e2e_env/aaa/23.1/gateway/maps/Linux/echogat2.lnx -OAGATIT1 'libgatit.so,DLLImpPort,Online -U aaa -P aaaaaaa'
In # 1: 1 Out # 1: 1 Time: 0:02 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:02
In # 1: 1 Out # 1: 1 Time: 0:02
Map completed (0): Map completed successfully (2.025 seconds)

tapt24@bnglxscb01.temenosgroup.com:/oams/sd_e2e_env/aaa/current/gateway/maps/Linux> ./aaa_subd.dbg -W -Uhla -Phlahla -cSG0020001 -d 1 -h
$GWPACK_HOME/config/GWPACK_Subscription_Query.HLAOP.cfg -a $GWPACK_HOME/config/Subscription_Atfile.run.att -r $GWPACK_HOME/config/GWPACK_Registry.mrc -B 0
Tapt24@bnglxscb01.temenosgroup.com->/aaa_subd.dbg -W -Uaaa -Paaaaaa -BatchClient -d 5 -h $GWPACK_HOME/config/GWPACK_Subscription_Query.HLAOP.cfg -a $GWPACK_HOME/config/Subscription_Atfile.run.att -r
$GWPACK_HOME/config/GWPACK_Registry.mrc -B 0 -T 1
tapt24@bnglxscb01.temenosgroup.com:/oams/sd_e2e_env/aaa/current> cat locgwpsub.sh
$AAAHOME/aaaprofile
$AAAHOME/tools/init.sh

```

```

.SAAAHOME/tools/aliases.sh
.SAAAHOME/tools/aaa_library.sh

export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$AAAHOME/lib64/Linux
export LIBPATH=$LD_LIBRARY_PATH:$AAAHOME/lib64/AIX
export AAABIN=$AAAHOME/bin/Linux
export AAAMSG=$AAAHOME/msg
export AAAREP=$AAAHOME/msg

.$GWPACK_HOME/config/GWPACK.cfg
$(GWPACK_BIN)/GWPACK_Function.fct

.${GWPACK_WTX_HOME}/setup

export AAA_GATEWAY_OUTPUT=gatit.out
export DEBUG_GATADAPT=9
export AAASUBTRACE=1
export GATITDUMPTTRACE=1

#0 0x00007ffe5e6c52f in raise () from /usr/lib64/libc.so.6
#1 0x00007ffe5e5e65 in abort () from /usr/lib64/libc.so.6
#2 0x00007ffe5e5fd39 in __assert_fail_base.cold.0 () from /usr/lib64/libc.so.6
#3 0x00007ffe5e64e86 in __assert_fail () from /usr/lib64/libc.so.6
#4 0x0000000001814979 in AAALoggerImpl::init () at /nas/prod/ref/int/multi-scm/TA/cmake/202404.1.09/triplea_core/src/aaalogger.cpp:391
#5 0x0000000001817f0d in AAALogger::init () at /nas/prod/ref/int/multi-scm/TA/cmake/202404.1.09/triplea_core/src/aaalogger.cpp:1406
#6 0x00007ffba092e478 in AAA_Ollinit (argc=5, argv=0x7ffba6565a0+<passArgv>, context=0x7ffa800a7e0)
at /nas/prod/ref/int/multi-scm/TA/cmake/202404.1.09/triplea_core/src/ollit.c:271
#7 0x00007ffba092e378 in AAA_Ollinit (argc=5, argv=0x7ffba6565a0+<passArgv>, context=0x7ffa800a7e0)
at /nas/prod/ref/int/multi-scm/TA/cmake/202404.1.09/triplea_core/src/ollit.c:213
#8 0x00007ffba450275 in ___AAA_Ollinit (argc=5, argv=0x7ffba6565a0+<passArgv>, context=0x7ffa800a7e0)
at /nas/prod/ref/int/multi-scm/TA/cmake/202404.1.09/triplea_core/gateway/gatit.c:109
#9 0x00007ffba452a2f in GattConnect (hConnection=0x7fffa8000b60, hAdapter=0x7fffa4208ca0)
at /nas/prod/ref/int/multi-scm/TA/cmake/202404.1.09/triplea_core/gateway/gatit.c:1652
#10 0x00007ffff7a74843 in CMplUserConnection::Connect (this=<optimized out>, a=...) at mercpl.cpp:3940
#11 0x00007ffff7a92b97 in mpiConnectionConnect (hConnection=0x7fffa8000b60, hAdapter=0x7fffa4208ca0) at mercpic.cpp:1012
#12 0x00007ffffd6d33947 in __AdapterConnect (ap=<optimized out>) at rmadpt.c:612
#13 0x00007ffffd6d33b89 in InvokeAdapterMethod (rman=<optimized out>, ap=0x7ffd5aa43f0, TM=TM@entry=0x7ffd5aa4360) at rmadpt.c:1088
#14 0x00007ffffd6d33cc7 in RMThread (lpv=<optimized out>) at rmadpt.c:1133
#15 0x00007ffffd6d2c7f3 in ipthread_entry (data=0x7fffa427db80) at unixthr.c:741
#16 0x00007ffff6cd81ca in start_thread () from /usr/lib64/libpthread.so.0
#17 0x00007ffe5e578d3 in clone () from /usr/lib64/libc.so.6

```

## Sybase Heap Memory Error - Recommendation

27 October 2022 11:18

Caused by: com.odcgroup.tsl.fc.intern.exception.TslStoredProcedureException: Exception in call to stored procedure [init\_data\_persist] with message: "[There is insufficient heap memory to allocate 43884 bytes. Please increase configuration parameter 'heap memory per user' or try again when there is less activity on the system.

Solved by changing on D\_TAP\_BA  
sp\_configure 'heap memory per user', 49152

From <<http://rd.telemenosgroup.com/browse/PMSTA-13278>>

This is the Sybase recommendation:

The size of the memory pool depends on the number of user connections. Sybase recommends that you set heap memory per user to three times the size of your logical page.

From <<http://rd.telemenosgroup.com/browse/SUPPORT-6057>>

## psc and cpp/c file tracing statement

15 February 2023 21:29

```
1. MSG_SendMsg(FILEINFO, SYS_Stringer("[Fun:SUBD_UnlockEventMap] ret:", ret));

2. /* composite key */
std::string mainMapBEKey = SYS_Stringer(GET_NOTE(mainEvents[i], A_Event_MapStorage),
"~",(IS_NULLFLD(mainEvents[i], A_Event_BusEntityCd) ? "" : GET_CODE(mainEvents[i], A_Event_BusEntityCd)));

MSG_SendMsg(FILEINFO, SYS_Stringer("[Fun:SUBD_GetLockedMapEvents] mainMapBEKey:", mainMapBEKey));

3. sprintf(strBuf,
"Parse failed for entity (%s).",
entityName);
MSG_LogMsg(RET_GEN_ERR_PERSONAL, 1, FILEINFO, strBuf);

4. mapReturn = Run_Map(finalBuff, mapStorage);
MSG_SendMsg(FILEINFO, SYS_Stringer("[Fun:SUBD_SendAllEventsToMercator] finalBuff:"
finalBuff, " mapStorage:", mapStorage, " mapReturn:", mapReturn));

=====
```

Server.log

```
1. {MSG_LogSrvMsg(UNUSED, UNUSED, "Function Result [%1] : [%2]", CodeType, GET_CODE(aFctResPtr, A_FctResult_Cd),
EnumType, GET_ENUM(aFctResPtr, A_FctResult_StatusEn)); }

2. {MSG_LogSrvMsg(UNUSED, UNUSED, "FIN_RecommListLinks rListNbr : %1", IntType, rListNbr);}

3. MSG_LogSrvMsg(UNUSED, UNUSED, "%1 : Saving all links (%2)", NameType, dictFctInfo->name, IntType, extStratLnkNbr);

4. MSG_LogSrvMsg(UNUSED,
0,
"portfolio %1 : %2 not found in strategies",
CodeType,
GET_CODE(ptfPtr, A_Ptf_Cd),
CodeType,
instrMktSgtField);

5. MSG_LogSrvMsg(UNUSED, UNUSED, "Instrument [%1] : instrument [%2] found in List [%3] for constraint [%4]",
IdType, GET_ID(crtPos, ExtPos_Ptfd),
CodeType, GET_CODE(instrPtr, A_Instr_Cd),
CodeType, GET_CODE(objStp, A_List_Cd),
IdType, GET_ID(MCEPtr, A_ModelConstrElt_Id));

6. MSG_LogSrvMsg(UNUSED, UNUSED, "Allocation Warning for instrument %1:"
" remaining qty %2 (global qty not multiple of round lot qty %3)",
CodeType, GET_CODE(instrPtr, A_Instr_Cd),
NumberType, actGlobQty,
NumberType, oddLotQty);

7. MSG_LogSrvMsg(UNUSED, UNUSED, SYS_Stringer("Exit ",strRpcName).c_str());

8. MSG_LogSrvMsg(UNUSED, UNUSED, "SERV_CheckFinAnalysisSecu(level 0) returns FALSE because %1 was not found amongst %2 rows in fctTab[]",
SysnameType, dictFctInfo->procName,
IntType, iNbRows);
MSG_LogSrvMsg(0, 0, "Started (Server Version : %1.%2 %3%4 %5, Client Connections : %6, Server Connections : %7, Role Disp=%8 Fus=%9 Fin=%10 Rep=%11 Proxy=%12%13)",
CodeType, AAAVersion::getVersion().getVersionCode().c_str(),
CodeType, AAAVersion::getVersion().getFixCode().c_str(),
CodeType, AAAVersion::getVersion().getOsName().c_str(),
CodeType, AAAVersion::getVersion().getBitsCode().c_str(),
CodeType, EV_CurrentSrvConfig.getSchemeName().c_str(),
IntType, SERV_GetMaxAvailConn(),
IntType, DBA_GetMaxAvailConn(),
CodeType, (dispatchServer) ? "Yes" : "No",
CodeType, (fusionServer) ? "Yes" : "No",
CodeType, (financialServer) ? "Yes" : "No",
CodeType, (reportServer) ? "Yes" : "No",
CodeType, (proxyServer) ? "Yes" : "No", /* PMSTA-43502 - LIE - 210208 */
NameType, busEntityCd.c_str());
```

psc file trace

```
1. #DECLARE @update_count int_t,
@sql string2000_t

#ASSIGN @sql = 'return_status = 0' #APPEND @map_storage_c #APPEND @business_entity_cd #APPEND #CONVERT(name_t,@service_id) #APPEND #CONVERT(name_t,@rank_n)
#EXEC ins_tasc_logger @txt = @sql, @procname = 'loc_event_map_by_map', @loglevel = 1

2. #IF @return_status = 99
#{

#ASSIGN @sql = 'return_status = 99' #APPEND @map_storage_c #APPEND @business_entity_cd #APPEND #CONVERT(name_t,@service_id) # APPEND #CONVERT(name_t,@rank_n)
```

```
#EXEC ins_tasc_logger @txt = @sql, @procname = 'loc_event_map_by_map', @loglevel = 1
#RETURN
#}

3. #ASSIGN @sql = 'Final: return_status = 0' #APPEND @map_storage_c #APPEND @business_entity_cd #APPEND #CONVERT(name_t,@service_id) #APPEND #CONVERT(name_t,@rank_n)
#EXEC ins_tasc_logger @txt = @sql, @procname = 'loc_event_map_by_map', @loglevel = 1

4. #SPROC_END ins_tasc_logger_by_id
/* #AUTONOMOUS_TRANSACTION */
```

# Preloaded shared libraries in AIX

19 August 2024 20:05

## Preloaded shared libraries

Last Updated: 2023-03-24

The *LDR\_PRELOAD* and *LDR\_PRELOAD64* environment variables make it possible for a process to preload shared libraries.

The *LDR\_PRELOAD* environment variable is for 32-bit processes, and the *LDR\_PRELOAD64* environment variable is for 64-bit processes.

During symbol resolution, the preloaded libraries listed in the environment variable will be searched first for every imported symbol, and only when a symbol is not found will the normal search be used. Preempting of symbols from preloaded libraries works for both AIX® default linking and run-time linking. Deferred symbol resolution is unchanged.

For more information on these environment variables, see [Miscellaneous tunable parameters](#).

From <<https://www.ibm.com/docs/en/aix/7.3?topic=techniques-preloaded-shared-libraries>>

# DBMS\_SESSION and DBMS\_SYSTEM - Oracle

11 August 2023 08:30

[https://docstore.mik.ua/oreilly/oracle/bipack/ch11\\_01.htm](https://docstore.mik.ua/oreilly/oracle/bipack/ch11_01.htm)

Chapter 11. Managing Session Information Contents: DBMS\_SESSION: Managing Session Information DBMS\_System: Setting Events for Debugging Oracle technologies allow for a great deal of user customization and security. Language preferences can be specified at the session level using the NLS (National Language Support) options of the ALTER SESSION command. Roles can be used to distinguish groups of users from each other and to modify application behavior accordingly. This chapter describes the following two packages that allow you to perform these operations: DBMS\_SESSION Contains programs that can modify and inspect session roles and settings from within PL/SQL. This package also contains programs for manipulating session memory and package states; even if they aren't used very often, these programs are very instructive to understand. DBMS\_SYSTEM Lets administrators set various trace events in other users' sessions. Setting these events can be invaluable when tracking down difficult application performance or database issues. 11.1 DBMS\_SESSION: Managing Session Information The DBMS\_SESSION package lets you access and alter session-level settings, including features of the ALTER SESSION and SET ROLE commands in SQL. Some of the session modifications that can be made using DBMS\_SESSION include the following: Enabling and disabling roles Setting National Language Support (NLS) characteristics Resetting package states and releasing session package memory Setting Trusted Oracle label characteristics DBMS\_SESSION is used primarily to set preferences and security levels for a user's current database session. For instance, if an application requires specific roles to be set prior to performing specific tasks, this can be done using DBMS\_SESSION's SET\_ROLE procedure. Most of the programs in DBMS\_SESSION would not likely be called deep in the processing layers of application code, but rather invoked early in the application to establish a necessary, appropriate, or preferred context for the user of the application. 11.1.1 Getting Started with DBMS\_SESSION The DBMS\_SESSION package is created when the Oracle database is installed. The dbmsutil.sql script (found in the built-in packages source code directory, as described in Chapter 1, Introduction ), contains the source code for this package's specification. This script is called by catproc.sql , which is normally run immediately after database creation. The script creates the public synonym DBMS\_SESSION for the package and grants EXECUTE privilege on the package to public. This way, all Oracle users can reference and make use of this package.

11.1.1.1 DBMS\_SESSION programs Table 11.1 lists the programs found in the DBMS\_SESSION package. Table 11.1: DBMS\_SESSION Programs Name Description Use in SQL? CLOSE\_DATABASE\_LINK Closes an inactive but open database link No FREE\_UNUSED\_USER\_MEMORY Releases unused session memory No IS\_ROLE\_ENABLED Returns TRUE if role enabled No RESET\_PACKAGE Clears all persistent package state No SET\_CLOSE\_CACHED\_OPEN\_CURSORS Turns automatic closing of cached cursors on or off No SET\_LABEL Sets Trusted Oracle label No SET\_MLS\_LABEL\_FORMAT Sets Trusted Oracle MLS label format No SET\_NLS Sets National Language Support characteristics for the session No SET\_ROLE Enables or disables roles for the session No SET\_SQL\_TRACE Turns session SQL tracing on or off No UNIQUE\_SESSION\_ID Returns a unique character string for the session Yes DBMS\_SESSION does not declare any exceptions of its own or any nonprogram elements. 11.1.2 Modifying Session Settings This section describes the procedures you can use to modify various session settings: SET\_LABEL, SET\_MLS\_LABEL\_FORMAT, SET\_NLS, and SET\_ROLE. 11.1.2.1 The DBMS\_SESSION.SET\_LABEL procedure The SET\_LABEL procedure sets the session's label used by Trusted Oracle databases. The header looks like this: PROCEDURE DBMS\_SESSION.SET\_LABEL (lbl IN VARCHAR2); The lbl parameter contains the label for the session. 11.1.2.1.1 Exceptions The SET\_LABEL procedure does not raise any package exceptions. If Trusted Oracle is not installed, calling SET\_LABEL results in the following Oracle exception: ORA-02248 Invalid option for ALTER SESSION. 11.1.2.1.2 Restrictions Note the following restrictions on calling SET\_LABEL: DBMS\_SESSION.SET\_LABEL is not allowed in remote sessions. The program does not assert a purity level with the RESTRICT\_REFERENCES pragma. 11.1.2.1.3 Example This example uses the SET\_LABEL procedure to set the session label to DBHIGH: BEGIN DBMS\_SESSION.SET\_LABEL('DBHIGH'); END; For more information on SET\_LABEL parameters, see the Trusted Oracle7 Server Administrator's Guide . 11.1.2.2 DBMS\_SESSION.SET\_MLS\_LABEL\_FORMAT procedure The SET\_MLS\_LABEL\_FORMAT procedure sets the session's default format for the labels used by Trusted Oracle databases. PROCEDURE DBMS\_SESSION.SET\_MLS\_LABEL\_FORMAT (fmt IN VARCHAR2); The fmt parameter is a VARCHAR2 that contains the label format for the session. The program does not raise any exceptions. 11.1.2.2.1 Restrictions Note the following restrictions on calling SET\_MLS\_LABEL\_FORMAT: DBMS\_SESSION.SET\_MLS\_LABEL\_FORMAT is not allowed in remote sessions. The program does not assert a purity level with the RESTRICT\_REFERENCES pragma. 11.1.2.2.2 Example For more information on MLS label formats, see the Trusted Oracle7 Server Administrator's Guide . 11.1.2.3 The DBMS\_SESSION.SET\_NLS procedure The SET\_NLS procedure sets or alters National Language Support characteristics for the current session. The SET\_NLS header looks like this: PROCEDURE DBMS\_SESSION.SET\_NLS (param IN VARCHAR2 ,value IN VARCHAR2); Parameters are summarized in the following table. Parameter Description param NLS parameter being set for the session (see following list of values) value Value of the specified parameter The following session NLS characteristics can be set via this procedure; specify the desired one as the value of the param parameter: NLS\_CALENDAR NLS\_CURRENCY NLS\_DATE\_FORMAT NLS\_DATE\_LANGUAGE NLS\_ISO\_CURRENCY NLS\_LANGUAGE NLS\_NUMERIC\_CHARACTERS NLS\_SORT NLS\_SPECIAL\_CHARS NLS\_TERRITORY 11.1.2.3.1 Exceptions The DBMS\_SESSION.SET\_NLS procedure does not raise any exceptions. However, if the value parameter represents a format mask (which would be double-quoted in the ALTER SESSION command) it needs to be enclosed in triple quotes. Otherwise, the following Oracle error will be raised: ORA-00922 Missing or invalid option. 11.1.2.3.2 Restrictions Note the following restrictions on calling this procedure: SET\_NLS cannot be called from triggers. SET\_NLS is not allowed in remote sessions. The procedure does not assert a purity level with the RESTRICT\_REFERENCES pragma. 11.1.2.3.3 Examples To change the default date format for the current session, as used by the TO\_CHAR and TO\_DATE functions, specify the following: BEGIN DBMS\_SESSION.SET\_NLS('NLS\_DATE\_FORMAT','"YYYY:MM:DD"'); DBMS\_OUTPUT.PUT\_LINE(TO\_CHAR(SYSDATE)); END; The above PL/SQL block produces a result similar to this: 1997:07:26 Enclose the NLS parameter name in single quotes if it is passed as a string literal. Another option is to initialize a VARCHAR2 variable to the parameter value and pass the variable name for the param parameter. In this case, the variable name is not quoted in the call to SET\_NLS. As mentioned previously, if the value parameter represents a format mask (which would be double-quoted in the ALTER SESSION command) it needs to be enclosed in triple quotes. Otherwise, the ORA-00092 Oracle error will be raised. WARNING: The following sample code and output reveals a problem with the Oracle7.3 DBMS\_SESSION.SET\_NLS procedure. The NLS\_DATE\_FORMAT being passed in is valid, yet the procedure will generate an unhandled exception. This problem appears to have been fixed in the Oracle 8.0 package. SQL> ALTER SESSION SET NLS\_DATE\_FORMAT='YYYY:MM:DD:HH24:MI:SS'; Session altered. SQL> BEGIN 2 DBMS\_SESSION.SET\_NLS('NLS\_DATE\_FORMAT','"YYYY:MM:DD:HH24:MI:SS"'); 3 END; 4 / BEGIN \* ORA-06510: PL/SQL: unhandled user-defined exception ORA-06512: at "SYS.DBMS\_SESSION", line 46 ORA-06512: at line 2 You can query the NLS settings for the current session from the V\$NLS\_PARAMETERS virtual table as follows: SELECT parameter,value FROM v\$nlsparameters; See the Oracle7 Server Reference Manual for information on the possible meanings and values for the various NLS settings. 11.1.2.4 The DBMS\_SESSION.SET\_ROLE procedure The SET\_ROLE procedure enables and disables roles for the current session. It is equivalent to executing the SET ROLE command in SQL. The procedure call simply appends the text of the single parameter, role\_cmd, to the string "SET ROLE" and executes the resulting SQL command. The SET\_ROLE header looks like this: PROCEDURE DBMS\_SESSION.SET\_ROLE (role\_cmd IN VARCHAR2); 11.1.2.4.1 Exceptions The program does not raise any package exceptions. It can raise the following Oracle exceptions due to improper data in the role\_cmd parameter: ORA-01919 Role "rolename" does not exist. ORA-01979 Missing or invalid password for role "rolename." ORA-01924 Role "rolename" not granted or does not exist. 11.1.2.4.2 Restrictions Note the following restrictions on calling the SET\_ROLE procedure: SET\_ROLE cannot be

called from triggers. SET\_ROLE cannot be called from PL/SQL stored procedures or functions. SET\_ROLE does not assert a purity level with the RESTRICT\_REFERENCES pragma. To successfully enable a role, the user must already have been granted the role. After executing the SET\_ROLE procedure, only the roles specified in the procedure call will be enabled.

**11.1.2.4.3 Examples**

Set the password-protected role SPECIAL\_ROLE in the current session like this:

```
BEGIN DBMS_SESSION.SET_ROLE('SPECIAL_ROLE IDENTIFIED BY password'); END;
```

Disable all roles in the current session like this:

```
BEGIN DBMS_SESSION.SET_ROLE('NONE'); END;
```

Set multiple roles for the current session like this:

```
BEGIN DBMS_SESSION.SET_ROLE('ROLE1, ROLE2, ROLE3'); END;
```

The role\_cmd parameter is case-insensitive, which is the default behavior for role names in the Oracle catalog. To set a case-sensitive role, the role name must be double-quoted in the role\_cmd parameter. For example:

```
BEGIN DBMS_SESSION.SET_ROLE("special_role"); END;
```

Notice that the lowercase role name special\_role is double-quoted and also contained in a string literal delimited by single quotes. See the Oracle7 Server SQL Reference for more details about the SET ROLE command.

**11.1.3 Obtaining Session Information**

This section describes the functions you can use to obtain information about a session:

- IS\_ROLE\_ENABLED** and **UNIQUE\_SESSION\_ID**.

**11.1.3.1 The DBMS\_SESSION.IS\_ROLE\_ENABLED function**

The IS\_ROLE\_ENABLED function returns TRUE or FALSE depending on whether the role specified in the rolename parameter is enabled. The header for this function follows:

```
FUNCTION DBMS_SESSION.IS_ROLE_ENABLED (rolename IN VARCHAR2) RETURN BOOLEAN;
```

The rolename parameter specifies the name of the role. The IS\_ROLE\_ENABLED function does not raise any declared exceptions and does not assert a purity level with the RESTRICT\_REFERENCES pragma.

**11.1.3.1.1 Example**

The following PL/SQL block will detect whether the user's session currently has the CONNECT role enabled:

```
BEGIN IF DBMS_SESSION.IS_ROLE_ENABLED('CONNECT') THEN DBMS_OUTPUT.PUT_LINE('CONNECT IS ENABLED'); ELSE DBMS_OUTPUT.PUT_LINE('CONNECT IS NOT ENABLED'); END IF; END;
```

An application might use this function to implement role-dependent behavior as in the following code fragment:

```
IF DBMS_SESSION.IS_ROLE_ENABLED('APP_ADMIN') THEN /* || do special administrative logic here */ app_admin_setup; ELSE /* || do the normal user logic here */ user_setup; END IF;
```

**NOTE:** The IS\_ROLE\_ENABLED function is case-sensitive on the rolename parameter, so beware of unexpected results. The default behavior is for role names to be uppercase in the Oracle catalog, so it is probably best to cast the rolename to uppercase prior to calling this function. For example, in the following block, the variable return\_TF will be set to FALSE when CONNECT is enabled for the session because the CONNECT role is uppercase in the catalog:

```
DECLARE return_TF BOOLEAN; BEGIN return_TF := DBMS_SESSION.IS_ROLE_ENABLED('connect'); END;
```

**11.1.3.2 The DBMS\_SESSION.UNIQUE\_SESSION\_ID function**

The UNIQUE\_SESSION\_ID function returns a character string unique to the session among all sessions currently connected to the database. The return string can be up to 24 bytes in length. Multiple calls to the function from the same session will always return the same string. The program header follows:

```
FUNCTION DBMS_SESSION.UNIQUE_SESSION_ID RETURN VARCHAR2;
```

The UNIQUE\_SESSION\_ID function does not raise any exceptions.

**11.1.3.2.1 Restrictions**

Prior to Oracle 7.3.3, this function did not assert a purity level with the RESTRICT\_REFERENCES pragma. In Oracle 7.3.3 and above, the program asserts the following purity:

```
PRAGMA RESTRICT_REFERENCES(UNIQUE_SESSION_ID,WNDS,RNDS,WNPS);
```

Thus, you can call the UNIQUE\_SESSION\_ID function directly in SQL for Oracle databases at release 7.3.3 and later.

**11.1.3.2.2 Example**

To display the value of the unique id for the current session, specify the following:

```
DECLARE my_unique_id VARCHAR2(30); BEGIN my_unique_id := DBMS_SESSION.UNIQUE_SESSION_ID; DBMS_OUTPUT.PUT_LINE('UNIQUE ID: '||my_unique_id); END;
```

An example of output from executing the preceding PL/SQL block follows:

```
UNIQUE ID: F000E4020000
```

UNIQUE\_SESSION\_ID is functionally identical to the DBMS\_PIPE.UNIQUE\_SESSION\_NAME function; however, their return values are not identical. Be very careful not to write code that assumes that these two functions are equivalent.

**NOTE:** Ace technical reviewer Phil Pitha points out that the two functions may be related. He writes that it appears that DBMS\_PIPE.UNIQUE\_SESSION\_NAME returns an id of the format: 'ORA\$PIPE\$' || DBMS\_SESSION.UNIQUE\_SESSION\_ID.

**11.1.4 Managing Session Resources**

This section describes the procedures you can use to manage your session resources:

- CLOSE\_DATABASE\_LINK**, **FREE\_UNUSED\_USER\_MEMORY**, **RESET\_PACKAGE**, **SET\_CLOSE\_CACHED\_OPEN\_CURSORS**, and **SET\_SQL\_TRACE**.

**11.1.4.1 The DBMS\_SESSION CLOSE\_DATABASE\_LINK procedure**

The CLOSE\_DATABASE\_LINK procedure is used to close an open but inactive database link in the session. The header for the program is:

```
PROCEDURE DBMS_SESSION.CLOSE_DATABASE_LINK (dblink IN VARCHAR2);
```

where dblink specifies the name of the database link.

**11.1.4.1.1 Exceptions**

The CLOSE\_DATABASE\_LINK procedure does not raise any package exceptions. It can raise the following Oracle exceptions when the referenced database link cannot be closed:

- ORA-02080 Database link is in use.
- ORA-02081 Database link is not open.

**11.1.4.1.2 Restrictions**

Note the following restrictions on calling CLOSE\_DATABASE\_LINK:

- All cursors using the database link must be closed, and any transactions that reference the link (for UPDATE or SELECT purposes) must be ended (with COMMIT or ROLLBACK).
- The program does not assert a purity level with the RESTRICT\_REFERENCES pragma.

**11.1.4.1.3 Example**

To close a database link named LOOPBACK, specify the following:

```
BEGIN DBMS_SESSION.CLOSE_DATABASE_LINK('LOOPBACK'); END;
```

Use of database links establishes a proxy session for the local user on the remote database, and this is a relatively expensive process. This is why Oracle keeps database links open rather than closing them immediately upon completion of the remote operation. Therefore, the CLOSE\_DATABASE\_LINK procedure probably should not be routinely called, especially for database links that are likely to be referenced again in the current session.

**11.1.4.2 The DBMS\_SESSION.FREE\_UNUSED\_USER\_MEMORY procedure**

The FREE\_UNUSED\_USER\_MEMORY procedure is used to reclaim user session memory, especially when memory-intensive operations have been performed in the session. The header for this procedure follows:

```
PROCEDURE DBMS_SESSION.FREE_UNUSED_USER_MEMORY;
```

The FREE\_UNUSED\_USER\_MEMORY procedure does not raise any exceptions and does not assert a purity level with the RESTRICT\_REFERENCES pragma. Oracle Corporation recommends that this procedure be used only when memory is at a premium and the session has allocated large (greater than 100 Kb) amounts. This caution indicates that calling the FREE\_UNUSED\_USER\_MEMORY procedure is itself a relatively expensive operation and should be done only when really necessary. Calling the procedure forces Oracle to deallocate any session memory previously allocated but currently unused. The following examples are the kinds of operations that can lead to large memory allocations:

- In-memory sorts where the SORT\_AREA\_SIZE initialization parameter is large.
- Compilation of large PL/SQL packages, procedures, and functions.
- Use of PL/SQL tables to store large amounts of data. In each of these cases, memory allocated for a specific purpose can only be re-used by Oracle for that same purpose. For example, memory allocated to the session for large PL/SQL compilations will not be reused later for anything but compilation of PL/SQL. If no more compilation is anticipated and memory is scarce, this is a good time to call FREE\_UNUSED\_USER\_MEMORY.
- In the case of PL/SQL tables, the scope of the table determines when memory allocated to the table is no longer in use and can be freed. Memory allocated for tables declared locally by procedures and functions becomes unused once the module completes execution. Other PL/SQL tables (local or global) can then make use of this memory. However, the memory remains allocated to the session. Global tables (i.e., tables declared at the package level) have persistent scope, and the memory associated with them can be made reusable only by assigning a NULL table to them. In either case, once the memory is made reusable, it is also eligible to be freed (deallocated from the session) using the FREE\_UNUSED\_USER\_MEMORY procedure.

Figure 11.1 illustrates the relationship between session memory and local versus global PL/SQL tables. In the figure, after package1.procedure1 executes and FREE\_UNUSED\_USER\_MEMORY is called, the memory for PL/SQL table2 is still allocated to the session. On the other hand, package2.procedure1 declares both tables locally, so that all the memory they use can be freed after the procedure completes.

**Figure 11.1: Package architecture and persistent session memory**

Memory freed by calling this procedure is returned to either the operating system or the Oracle shared pool. This depends on the Oracle configuration and session connection as follows:

- Sessions connected through multithreaded servers return memory to the shared pool.
- Sessions with dedicated server connections return memory to the operating system.

Session memory can be monitored through the statistics for "session uga memory" and "session pga memory" found in the V\$SESSTAT virtual table. See the DBMS\_SESSION package specification in the dbmsutil.sql file for more information on session memory and the effects of the FREE\_UNUSED\_USER\_MEMORY procedure.

**11.1.4.3 The DBMS\_SESSION.RESET\_PACKAGE procedure**

The RESET\_PACKAGE procedure resets all package states for the session. The values of any persistent package variables will be lost after execution of this procedure. The header for this procedure follows:

```
PROCEDURE DBMS_SESSION.RESET_PACKAGE;
```

The RESET\_PACKAGE procedure does not raise any exceptions.

**11.1.4.3.1 Restrictions**

Note the following restrictions on calling RESET\_PACKAGE:

- Use the RESET\_PACKAGE procedure with great caution, as it will cause the loss of package state in all packages for the current session.
- Applications making use of persistent package variables may be compromised and fail to work properly after calls to

RESET\_PACKAGE. Therefore, in general, don't embed calls to this procedure in application programs. The program does not assert a purity level with the RESTRICT\_REFERENCES pragma.

#### 11.1.4.3.2 Example

The output buffer used by DBMS\_OUTPUT is actually a global package data structure that is initialized when either DBMS\_OUTPUT.ENABLE or SET SERVEROUTPUT ON is called in PL/SQL or SQL\*Plus, respectively. The following PL/SQL block will not display the message, because the call to RESET\_PACKAGE clears out the DBMS\_OUTPUT buffer:

```
BEGIN DBMS_SESSION.RESET_PACKAGE; DBMS_OUTPUT.PUT_LINE('This is an invisible message'); END;
```

Although calling RESET\_PACKAGE will clear all persistent package variables, including PL/SQL tables and records, it will not automatically release the session memory used by these structures. To release session memory back to the operating system (or Oracle shared pool), use the FREE\_UNUSED\_USER\_MEMORY procedure. Note that package states cannot be reinstated until the outermost PL/SQL calling scope within which RESET\_PACKAGE was called completes. This variation on the previous example illustrates the effect of RESET\_PACKAGE within its calling scope:

```
/* Filename on companion disk: sess1.sql */
/* set serveroutput on size 1000000
BEGIN DBMS_SESSION.RESET_PACKAGE; DBMS_OUTPUT.PUT_LINE('You will not see this');
DBMS_OUTPUT.ENABLE; DBMS_OUTPUT.PUT_LINE('Also invisible, since in same scope || as RESET_PACKAGE call');
END;
/ set serveroutput on size 1000000
BEGIN DBMS_OUTPUT.PUT_LINE('New package states instantiated || 'messages visible again!');
END;
/ Output from running this script follows: SQL> @c:\opbip\examples\sess1.sql
PL/SQL procedure successfully completed.
New package states instantiated messages visible again!
PL/SQL procedure successfully completed.
```

As you can see, only the final call to DBMS\_OUTPUT.PUT\_LINE displays its message. The second call to DBMS\_OUTPUT.PUT\_LINE in the first block fails to produce output because the buffer used by DBMS\_OUTPUT cannot be reinitialized within the same calling scope as RESET\_PACKAGE.

#### 11.1.4.4 The DBMS\_SESSION.SET\_CLOSE\_CACHED\_OPEN\_CURSORS procedure

The SET\_CLOSE\_CACHED\_OPEN\_CURSORS procedure is used to set the close\_cached\_open\_cursors property at the session level, overriding the database-wide setting established by the CLOSE\_CACHED\_OPEN\_CURSORS initialization parameter. The header for this procedure looks like this:

```
PROCEDURE DBMS_SESSION.SET_CLOSE_CACHED_OPEN_CURSORS (close_cursors IN BOOLEAN);
```

The close\_cursors parameter causes cached PL/SQL cursors to be automatically closed with a value of TRUE or kept open with a value of FALSE. The SET\_CLOSE\_CACHED\_OPEN\_CURSORS procedure does not raise any declared exceptions and does not assert a purity level with the RESTRICT\_REFERENCES pragma.

#### 11.1.4.4.1 Example

To set CLOSE\_CACHED\_OPEN\_CURSORS to on for the current session, specify the following:

```
BEGIN
DBMS_SESSION.SET_CLOSE_CACHED_OPEN_CURSORS(TRUE);
END;
```

Most applications will probably have no need to use this procedure. When set to TRUE, the Oracle database will automatically close any cached PL/SQL cursors after a COMMIT or ROLLBACK, which releases the memory used by these cursors. When set to FALSE, cursors are held open in the cache across transactions, making subsequent executions somewhat faster. Applications that tend to use large cursors in a one-time or infrequent fashion (e.g., ad hoc query systems against a data warehouse) may benefit from setting this value to TRUE. See the Oracle7 Server Reference Manual for more information on the CLOSE\_CACHED\_OPEN\_CURSORS initialization parameter.

#### 11.1.4.5 The DBMS\_SESSION.SET\_SQL\_TRACE procedure

The SET\_SQL\_TRACE procedure is equivalent to the ALTER SESSION SET SQL\_TRACE command. It is used to turn the Oracle SQL trace facility on or off for the session, primarily while debugging application problems. The SET\_SQL\_TRACE header looks like this:

```
PROCEDURE DBMS_SESSION.SET_SQL_TRACE (sql_trace IN BOOLEAN);
```

The sql\_trace parameter sets the trace on if TRUE, off if FALSE. The SET\_SQL\_TRACE procedure does not raise any exceptions.

#### 11.1.4.5.1 Restrictions

Note the following restrictions on calling SET\_SQL\_TRACE:

- In general, use the SET\_SQL\_TRACE procedure only when debugging application problems. Tracing session SQL calls adds overhead to the database and can generate numerous and sizable trace files on the host server. The SET\_SQL\_TRACE procedure does not assert a purity level with the RESTRICT\_REFERENCES pragma.
- 11.1.4.5.2 Example Generate a trace file for the execution of a specific PL/SQL procedure call like this:

```
BEGIN DBMS_SESSION.SET_SQL_TRACE(TRUE);
plssql_procedure_call ;
DBMS_SESSION.SET_SQL_TRACE(FALSE);
END;
```

The trace files generated when SQL tracing is turned on are created in the directory specified by the USER\_DUMP\_DEST initialization parameter for the Oracle database to which the session is connected. Trace file naming conventions often make it difficult to identify the correct trace file when there are many in the directory specified by USER\_DUMP\_DEST. Executing a "tag" SQL statement after turning tracing on can facilitate trace file identification. The trace files generated when SQL tracing is turned on are not directly readable. The Oracle utility program TKPROF can be used to generate a formatted summary of the trace file contents. The TKPROF output contains statistics on CPU time, elapsed time, and disk reads for the parse, execute, and fetch steps of each SQL statement in the trace file. This information can be invaluable when tracking down performance problems in complex applications. See the Oracle7 Server Tuning manual for instructions on using TKPROF.

#### 11.1.5 DBMS\_SESSION Examples

The DBMS\_SESSION package is a kind of grab bag of ways to alter the user's current session characteristics in an Oracle database. Oracle provides a great deal of flexibility with respect to language settings and security. DBMS\_SESSION includes several programs that are equivalent to the SQL commands SET ROLE and ALTER SESSION normally used to establish these settings. The following programs in DBMS\_SESSION fall into this category:

- SET\_LABEL
- SET\_MLS\_LABEL\_FORMAT
- SET\_NLS
- SET\_ROLE

These programs are "high-level," in that they would normally be called directly from an application program and not be buried deep inside layers of PL/SQL code. In fact, the SET\_ROLE procedure can only be called from anonymous PL/SQL blocks and not from within stored program (procedures and functions) code. So in practice, an application would begin by prompting the user for preferences, issue the appropriate DBMS\_SESSION.SET procedure calls, and then move on to the real work. Other programs in DBMS\_SESSION are geared toward manipulating session-level resource utilization, particularly memory. In this category are the following DBMS\_SESSION programs:

- SET\_CLOSE\_CACHED\_OPEN\_CURSORS
- CLOSE\_DATABASE\_LINK
- FREE\_UNUSED\_USER\_MEMORY
- RESET\_PACKAGE

These are also quite "high-level" routines, but more likely to find their way into application code under the right circumstances. One thing that DBMS\_SESSION does not have (and that it should) is a function to return the current session id. This is frequently asked for by developers and DBAs and is relatively easy to provide. NOTE: The source code for all of the examples is in a file called mysess.sql, which creates the package called my\_session shown in this section that includes these examples.

#### 11.1.5.1 Adding value to DBMS\_SESSION

Let's take a look at how we can use DBMS\_SESSION and add a little value along the way. I've created a package called my\_session to do just that. Here is the package specification:

```
/* Filename on companion disk: mysess.sql */
/* CREATE OR REPLACE PACKAGE my_session */ || Extends some of the functionality of DBMS_SESSION || and provides access to additional session-level || information. || || Author: John Beresniewicz, Savant Corp || || 12/22/97: exposed load_unique_id as per Phil Pitha || || 09/07/97: modified function SID to assert WNPS || and not call load_my_session_rec || 07/27/97: created || || Compilation Requirements: || ||
SELECT on sys.v_$session || SELECT on sys.v_$sesstat || SELECT on sys.v_$statname || || Execution Requirements: || || ALTER SESSION /* AS */ same as DBMS_SESSION.UNIQUE_SESSION_ID but callable in SQL /* FUNCTION unique_id RETURN VARCHAR2; PRAGMA RESTRICT_REFERENCES(unique_id, WNDS,WNPS); */ || loads unique_session_id into global variable, must be called || prior to using function unique_id /* PROCEDURE load_unique_id; /* returns session id of current session, callable in SQL */ FUNCTION sid RETURN NUMBER; PRAGMA RESTRICT_REFERENCES(sid,WNDS,WNPS); /* closes any open database links not in use */ PROCEDURE close_links (force_with_commit_tf IN BOOLEAN DEFAULT FALSE); /* loads session data, should be private but needs to assert purity */ PROCEDURE load_my_session_rec; PRAGMA RESTRICT_REFERENCES(load_my_session_rec,WNDS); /* resets package states and frees memory */ PROCEDURE reset; /* returns current stat value from V$SESSTAT for this session */ FUNCTION statval(statname_IN IN VARCHAR2) RETURN NUMBER; /* displays session uga and pga using DBMS_OUTPUT */ PROCEDURE memory; /* turns SQL tracing on/off with tag for file identification */ PROCEDURE set_sql_trace (trace_tf IN BOOLEAN ,tag_IN IN VARCHAR2 DEFAULT USER); END my_session;
```

You will notice that several of the programs seem very similar to programs in DBMS\_SESSION. Well, they are, but with some important differences.

#### 11.1.5.2 The unique\_id function

Prior to Oracle 7.3.3, the DBMS\_SESSION.UNIQUE\_SESSION\_ID function did not assert any purity level using the RESTRICT\_REFERENCES pragma and thus could not be called directly from SQL statements. This is unfortunate, because one nice potential use of the function is as an identifier for applications making use of shared temporary tables. In other words, some applications will find it useful to do things like the following:

```
INSERT INTO temp_table (session_id, other_columns...) VALUES (DBMS_SESSION.UNIQUE_SESSION_ID, other_columns...); DELETE FROM temp_table WHERE session_id = DBMS_SESSION.UNIQUE_SESSION_ID;
```

Thankfully, Oracle Corporation has corrected this shortcoming in the latest releases of DBMS\_SESSION. For those not fortunate enough to be using 7.3.3 or 8.0, the my\_session.unique\_id function can be used as a workaround. This function returns the same string as DBMS\_SESSION.UNIQUE\_SESSION\_ID, yet it asserts a

purity level of WNDS and can thus be called from SQL. Here is the source to unique\_id and its companion procedure load\_unique\_id: /\* Filename on companion disk: mysess.sql \*/ /\* private global to hold DBMS\_SESSION.UNIQUE\_SESSION\_ID \*/ unique\_id VARCHAR2(40); /\* || loads unique\_session\_id into global variable, must be called || prior to using function unique\_id \*/ PROCEDURE load\_unique\_id IS BEGIN unique\_id := DBMS\_SESSION.UNIQUE\_SESSION\_ID; END load\_unique\_id; /\* || returns unique\_id loaded by call to load\_unique\_id \*/ FUNCTION unique\_id RETURN VARCHAR2 IS BEGIN RETURN unique\_id; END unique\_id; As you can see, unique\_id simply returns the value of a private package global variable that is set by the load\_unique\_id procedure to the value returned by DBMS\_SESSION.UNIQUE\_SESSION\_ID. The only caveat is that load\_unique\_id must be called in the session prior to calling unique\_id (or a NULL value will be returned). Note that using a private global and function is safer than using a public global, since the public global cannot be protected from inadvertent modification.

11.1.5.3 The load\_my\_session\_rec procedure Each session has a unique row in the V\$SESSION virtual table with various columns containing identification and activity information about the session. The load\_my\_session\_rec procedure selects the row in V\$SESSION corresponding to the current session and loads it into a package global record called my\_session\_rec. /\* Filename on companion disk: mysess.sql \*/ /\* my\_session\_cur and my\_session\_rec are both declared || to always hold all columns of V\$SESSION \*/ CURSOR my\_session\_cur IS SELECT \* FROM sys.v\$\_session WHERE audsid = USERENV('SESSIONID'); my\_session\_rec sys.v\$\_session%ROWTYPE; /\* || loads V\$SESSION data into global record for current session \*/ PROCEDURE load\_my\_session\_rec IS BEGIN OPEN my\_session\_cur; FETCH my\_session\_cur INTO my\_session\_rec; CLOSE my\_session\_cur; END load\_my\_session\_rec; Notice that load\_my\_session\_rec is written in a way that ensures it always gets all columns of V\$SESSION. This is accomplished by anchoring the package global my\_session\_rec to V\$SESSION using %ROWTYPE in the declaration. Similarly, the cursor my\_session\_cur used to fetch into my\_session\_rec is anchored to V\$SESSION by using the SELECT \* syntax. This is a nice technique. Since V\$SESSION can change with Oracle versions, writing the procedure in this way allows it to adjust itself to the particular version of Oracle under which it is executing.

11.1.5.4 The sid function Several of the Oracle dynamic performance (V\$) views are keyed by session id because they contain session-level performance data. Many developers and DBAs have had to answer the question "What is my current sid?" when delving into these performance tables. I don't know why DBMS\_SESSION does not come with a sid function, but my\_session sure does. Here is the relevant source code: /\* Filename on companion disk: mysess.sql \*/ /\* || returns the session id of current session \*/ FUNCTION sid RETURN NUMBER temp\_session\_rec sys.v\$\_session%ROWTYPE; BEGIN IF my\_session\_rec.sid IS NULL THEN OPEN my\_session\_cur; FETCH my\_session\_cur INTO temp\_session\_rec; CLOSE my\_session\_cur; ELSE temp\_session\_rec := my\_session\_rec; END IF; RETURN temp\_session\_rec.sid; END sid; The sid function itself is quite simple, yet it has a subtle but important performance optimization. Since the session id will never change for the duration of the session, it is necessary to load it only once, and this can be done using the load\_my\_session\_rec procedure. The IF statement checks to see if we've already loaded the my\_session\_rec.sid and bypasses opening my\_session\_cur in that case. Remember that we intend to use the function in SQL statements, and it will be executed for every row returned in which the function is referenced. That simple IF statement could save hundreds (or even thousands) of scans on the V\$SESSION view per SQL statement. Be sure to execute load\_my\_session\_rec before using the sid function to avoid the unnecessary performance penalty. We can use the my\_session.sid function to view our current performance statistics from V\$SESSTAT as follows: SELECT n.name,s.value FROM v\$statname n, v\$sesstat s WHERE n.statistic# = s.statistic# AND s.sid = my\_session.sid; NOTE: Astute readers may ask: Why not just call load\_my\_session\_rec from the sid function if my\_session\_rec.sid has not been initialized? Well, originally this is exactly the way sid was written. However, since load\_my\_session\_rec modifies package state, this meant that WNPS (Writes No Package State) purity could not be asserted for the sid function. In order to use a PL/SQL function in the WHERE clause of a SQL statement, the function must assert WNPS, so sid had to be modified to not call load\_my\_session\_rec.

11.1.5.5 The close\_links procedure The Oracle initialization parameter OPEN\_LINKS controls the maximum number of concurrent open connections to remote databases per user session. When a session exceeds this number, the following Oracle error is raised: ORA-02020 Too many database links in use. Generally, the database administrator should set the OPEN\_LINKS parameter to a value that will accommodate the needs of distributed applications accessing the database. However, in highly distributed environments with multiple applications, it's possible that users could receive the ORA-02020 error. Presumably, this is the purpose of the CLOSE\_DATABASE\_LINK procedure; however, there is a serious problem. Quite simply, users should not have to know anything about database links nor, for that matter, should applications. Database links are an implementation detail that should be kept transparent to users and applications. The real question is: When an ORA-02020 is incurred, how is a user or application supposed to know which links are open and can be closed? Well, it's my opinion that users should not have to know about specific database links and yet should be able to do something in case of an ORA-02020 error. That is precisely the purpose of my\_session.close\_links. That procedure will close any open links that are not in use and can be closed. A link is considered in use if it has been referenced within the current transaction (i.e., since the last COMMIT or ROLLBACK). Alternatively, close\_links will close all open links by issuing a COMMIT to terminate the current transaction and free all links for closure. /\* Filename on companion disk: mysess.sql \*/ /\* || closes all open database links not in use by session, || or all if forced\_with\_commit\_TF is TRUE \*/ PROCEDURE close\_links (force\_with\_commit\_TF IN BOOLEAN DEFAULT FALSE) IS /\* declare exceptions for ORA errors \*/ dblink\_in\_use EXCEPTION; PRAGMA EXCEPTION\_INIT(dblink\_in\_use,-2080); dblink\_not\_open EXCEPTION; PRAGMA EXCEPTION\_INIT(dblink\_not\_open,-2081); /\* cursor of all db links available to user \*/ CURSOR all\_links\_cur IS SELECT db\_link FROM all\_db\_links; BEGIN /\* try all links and close the ones you can \*/ FOR dblink\_rec IN all\_links\_cur LOOP BEGIN DBMS\_SESSION.CLOSE\_DATABASE\_LINK(dblink\_rec.db\_link); EXCEPTION WHEN dblink\_not\_open THEN null; WHEN dblink\_in\_use THEN IF force\_with\_commit\_TF THEN COMMIT; DBMS\_SESSION.CLOSE\_DATABASE\_LINK(dblink\_rec.db\_link); END IF; WHEN OTHERS THEN null; END; END LOOP; END close\_links; There are a few things to note in this procedure. First, exceptions are declared and assigned to the two Oracle errors that can be raised by the DBMS\_SESSION.CLOSE\_DATABASE\_LINK procedure. This is done using PRAGMA EXCEPTION\_INIT compiler directives. Next comes a loop through all database links available to the user. For each link in the loop, we execute DBMS\_SESSION.CLOSE\_DATABASE\_LINK in a BEGIN...END block and trap the exceptions raised by links that were not open or in use. Trapping the exceptions allows the loop to continue until all links have been processed. Originally, the procedure would close only links that were not in use. I decided to enhance it to accept a BOOLEAN parameter called force\_with\_commit\_TF. When this parameter is TRUE, the dblink\_in\_use exception handler issues a COMMIT. This terminates the current transaction and frees all database links to be closed, including the one that raised the exception that is closed in the exception handler. This enhancement allows the procedure to close all database links for the session. NOTE: The V\$DBLINK virtual table shows database links that the current session has open. The IN\_TRANSACTION column indicates whether the open link is in use or can be closed using DBMS\_SESSION.CLOSE\_DATABASE\_LINK.

11.1.5.6 The set\_sql\_trace procedure The SQL trace facility is an invaluable tool for debugging application performance problems. However, one problem that developers and DBAs often run into when using SQL trace is identifying the correct trace file from among the possibly hundreds of trace files that tend to collect and hang around in the directory specified by the USER\_DUMP\_DEST parameter. One technique is to put a literal tag in trace files by executing a SQL command such as the following: SELECT 'JOHN B: TRACE 1' FROM DUAL; When issued immediately after setting SQL\_TRACE to TRUE, the statement will appear in the trace file, and a utility like grep or awk can be used to scan the directory for the file with the correct literal tag. In my\_session.set\_sql\_trace, I've enhanced DBMS\_SESSION.SET\_SQL\_TRACE to accept a string tag and place it into the trace file when turning trace on. The DBMS\_SQL package is used to build and parse a SQL statement dynamically with the tag literal in it. /\* Filename on companion disk: mysess.sql \*/ /\* || turns SQL tracing on/off with tag for file identification \*/ PROCEDURE set\_sql\_trace (trace\_TF IN BOOLEAN ,tag\_IN IN VARCHAR2 DEFAULT USER) IS cursor\_id INTEGER; BEGIN DBMS\_SESSION.SET\_SQL\_TRACE(trace\_TF); IF trace\_TF THEN cursor\_id := DBMS\_SQL.OPEN\_CURSOR; /\* parse a SQL stmt with the tag in it \*/ DBMS\_SQLPARSE(cursor\_id ,SELECT ''||tag\_IN||'' FROM DUAL,DBMS\_SQL.native); DBMS\_SQLCLOSE\_CURSOR(cursor\_id); END IF; END set\_sql\_trace; Note that it is not necessary to execute the tag SQL statement; the parse will get it into the trace file. After all, there is no need to do more work than absolutely required.

11.1.5.7 The reset procedure The DBMS\_SESSION.RESET\_PACKAGE procedure invalidates all package states, including all global variables and PL/SQL tables. However, it does not free the memory associated with these now empty structures; that is the job of DBMS\_SESSION.FREE\_UNUSED\_USER\_MEMORY. The my\_session.reset procedure combines these into a single call. /\* Filename on companion disk: mysess.sql \*/ /\* || resets all package states and frees

memory \*/ PROCEDURE reset IS BEGIN DBMS\_SESSION.RESET\_PACKAGE; DBMS\_SESSION.FREE\_UNUSED\_USER\_MEMORY; END reset; Originally, I designed the reset procedure to call load\_unique\_id and load\_my\_session\_rec immediately after initializing the package and freeing memory. The idea was that some package states should always be available, so why not reinitialize them immediately? However, I had stepped into the DBMS\_SESSION.RESET\_PACKAGE trap, which prevents any package state from being established within the same calling scope as the call to RESET\_PACKAGE. It is good practice for programs that rely on package state to check expected package variables and initialize them if necessary.

**11.1.5.8 The memory procedure**  
 The my\_session.memory procedure was developed to provide experimental results from using DBMS\_SESSION.RESET and DBMS\_SESSION.FREE\_UNUSED\_USER\_MEMORY. It uses DBMS\_OUTPUT to display the current session memory's UGA and PGA sizes. If you ever wondered how much memory that big package really uses, check it out with my\_session.memory. /\* Filename on companion disk: mysess.sql \*/ /\* || displays session uga and pga using DBMS\_OUTPUT \*/

```

 */ PROCEDURE memory IS BEGIN
 DBMS_OUTPUT.ENABLE;
 DBMS_OUTPUT.PUT_LINE('session UGA: '|| TO_CHAR(my_session.statval('session uga memory')));
 DBMS_OUTPUT.PUT_LINE('session PGA: '|| TO_CHAR(my_session.statval('session pga memory')));
 END;

```

The memory procedure uses a function called statval, which returns the value of a V\$SESSTAT statistic for the current session by name. It's a handy little function.

/\* Filename on companion disk: mysess.sql \*/ /\* || returns current value of a statistic from || V\$SESSTAT for this session \*/

```

 */ FUNCTION statval(statname_IN IN VARCHAR2) RETURN NUMBER IS
 CURSOR sesstat_cur (statname VARCHAR2) IS
 SELECT s.value
 FROM sys.v_$sesstat s,sys.v_$statname n
 WHERE s.statistic# = n.statistic#
 AND s.sid = my_session.sid
 AND n.name = statname;
 return_temp NUMBER;
 BEGIN
 OPEN sesstat_cur(statname_IN);
 FETCH sesstat_cur INTO return_temp;
 CLOSE sesstat_cur;
 RETURN return_temp;
 EXCEPTION WHEN OTHERS
 THEN
 IF sesstat_cur%ISOPEN THEN CLOSE sesstat_cur;
 END IF;
 RETURN NULL;
 END;

```

Notice that statval uses the my\_session.sid function in the cursor sesstat\_cur. The following script demonstrates the inefficiency of PL/SQL tables of VARCHAR2 under Oracle 7.3 using my\_session.memory:

/\* Filename on companion disk: sess2.sql \*/

```

 */ set serveroutput on size 100000
 DECLARE
 TYPE my_tabtype IS TABLE OF VARCHAR2(2000) INDEX BY BINARY_INTEGER;
 my_tab my_tabtype;
 BEGIN
 my_session.memory;
 FOR i IN 1..1000 LOOP
 my_tab(i) := TO_CHAR(i);
 END LOOP;
 my_session.memory;
 END;

```

/ Here is sample output from executing this script:

```

 session UGA: 36048 session PGA: 103328 session UGA: 36048 session PGA: 2248352
 PL/SQL procedure successfully completed.

```

Even though each entry in the PL/SQL table my\_tab has at most three characters, session PGA memory grew by more than two megabytes! Luckily, this problem is fixed in PL/SQL8.

**III. Server Management Packages**  
**11.2 DBMS\_System: Setting Events for Debugging**
[docstore.mik.ua/orelly/oracle/bipack/ch11\\_01.htm](https://docstore.mik.ua/orelly/oracle/bipack/ch11_01.htm)

From <[https://docstore.mik.ua/orelly/oracle/bipack/ch11\\_01.htm](https://docstore.mik.ua/orelly/oracle/bipack/ch11_01.htm)>

# Gatit installation on windows & visual studio debugging

Tuesday, May 31, 2022 10:19 PM

\*Pre-requisite: [Install WTX Launcher on Unix and Windows](#)

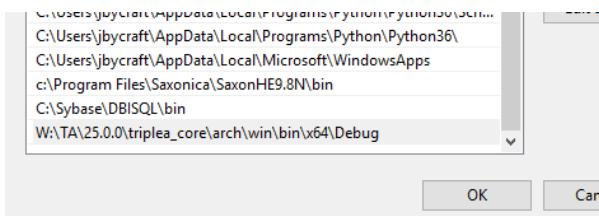
## Run and debug Gatit visual studio project:

Project: Gatit64 run with parameters setted as below:

Debug Gatit64:

- command: C:\IBM\[[WebSphere]] Transformation Extender 9.0.0\dtcmdsv64.exe
- Argument: W:\TA\25.0.0\gateway\maps\Windows\echogat.mmc -OAGATIT1 'gatit.dll,[DLLImpPort],Online -C [your\_config\_file] -U [user] -P [pass]'  
**note: make sure single quotes included**
- Working dir: C:\IBM\[[WebSphere]] Transformation Extender 9.0.0

## Add gatit.dll path to PATH Environment Variable:



## Set environment variables (in config file)

- AAA\_GATEWAY\_OUTPUT=c:\temp\
- AAAMERCATOR="C:\IBM\[[WebSphere]] Transformation Extender 9.0.0"

## NOTE: Restart any Visual Studio instance after changing Environment Variables!

In the file AAAMERCATOR\adapters.xml add gatit as below:

```
<UserAdapters>
 <!--<UserAdapter -name="File Sample" alias="SFILE" id="201" type="file" library="filesamp" vendor="IBM"/> -->
 <UserAdapter name="gatit" alias="GATIT" id="201" type="file" library="gatit" vendor="Temenos"/>
</UserAdapters>
```

[UserAdapters] can only have ids between 200 and 255, so only the numbers 1-55 are used to evaluate the command line argument "-OAGATIT1". 1 means 201.

The core product is packaged with a map that performs no transformation called echo, for developer testing. This allows a import file to be submitted to the WTX which will make no changes due to the echo and pass it to the online interface.

The echo map is in the Gateway Maps directory, e.g. W:\TA\25.0.0\gateway\maps\Windows

Place a test import file in the directory, named echo.in

Example:

```
SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET THOUSAND ,
CMD INSUPD instrument
ATT code name denom
DAT dla;dli;dlo
FLH
CMD INSUPD portfolio
ATT code
DAT DLA_PTF
CMD INSUPD ext_operation
ATT code portfolio_id.code instr_id.quantity_n nature_e account_d operation_d value_d status_e quote_n
DAT OP0011_DLA_PTF;DLA_PTF;dla;100;Buy;02-01-2006;02-01-2006;90;123.45
Launch gatit64
```

Resulting logs are in Gateway Maps directory

Resulting Output import file result is in AAA\_GATEWAY\_OUTPUT

From <http://wikiorg.temenosgroup.com/pages/viewpage.action?pageId=41389044>

## UNIQUE\_OUTPUT

Produce an unique log file with the output of the Triple'A importation instead of appending the output to a log file which filename is the name of the map.

Produce an unique log file with the output of the Triple'A importation instead of appending the output to a log file which filename is the name of the map.  
This new behaviour is triggered by the presence of a new environment variable "UNIQUE\_OUTPUT".

The syntax of this filename could be defined by a new pseudo command "OUT base\_filename" in the importation file. If there is such a command the syntax is <base\_filename><pid><time in seconds since epoch>. This line must be erased by libgatit before to send the file to libolit.

When the environment variable UNIQUE\_OUTPUT is set, unique file names are used for output.

The file name is generated using the syntax: <map name><pid><time in seconds since epoch>

Another keyword (OUT) have been added to the gateway adapter.

This keyword is used in association with the filename prefix you want to force.

If this keyword is found in the input data, then the file name will be : <word following the OUT keyword><pid><time in seconds since epoch>

Ex : OUT myfile

Note : in one input file, we only consider the first occurrence of this keyword. The eventual other occurrences are ignored.

First of all, the variable AAA\_GATEWAY\_OUTPUT must be set and must contain the destination directory of the output file.

Then, the name of the output file is build as follows:

If no OUT keyword is found, the map name is used as output file name.

If OUT keyword is found, the word following the OUT keyword is used as name for the output file.

Additionally, if the variable UNIQUE\_OUTPUT is set, a suffix composed of current process and current time in milliseconds is added to the output file name.

# AZURE Environment

Wednesday, March 23, 2022 6:39 PM

```
ENV_NAME : DEV_SQL_VM
ROOT_ENV : /data/tap/DEV_SQL_VM
TAP_COMMON : /data/tap/common
AAAHOME : /data/tap/DEV_SQL_VM/aaahome
```

```
APPL_OWNER : dev_sql_vmaaa
APPL_OWNER_PASSWD : TAOTAO123!
```

```
TASC_LOGIN : dev_sql_vmtasc
APPL_TASC_PASSWD : TATTAT123!
```

```
PROXY_LOGIN : proxylogin
APPL_PROXY_PASSWD : Default123!
```

```
AAALOGINMANAGER : DefaultSecurity123!
```

```
DEFAULT_FIN_SERVER : DEV_SQL_VM_S1
FIN_SERVER_PORT : 20010
```

```
RDBMS : MSSQL
RDBMS_ENGINE : Azure SQL Database
RDBMS_SHORT_NAME : mss
DATABASE_NAME : TAPDEV-SQL-DB1
ODBCINI : /data/tap/common/mssql/odbc.ini
SA_USER : tapdbadmin
SA_USER_PASSWD : TemenosDbAdmin2021
```

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22020701812>>

# System rpc checks and Restarts

Wednesday, December 15, 2021 1:11 PM

```
$ vi /etc/systemd/journald.conf
replaced Storage=persistent by Storage=none
$ killall systemd-journald
fuser -m /var
no output (which would normally be fine), but this wasn't enough due to /var/run/rpcbind.sock listed by lsof
```

From <<http://rd.temenosgroup.com/browse/CMT-11915>>

```
$ tar --selinux --acl --xattr -cf /home/cloud.tar cloud
umount cloud/
lvremove /dev/centos/lv_cloud # [y/n]: y
lvextend -l +100%FREE /dev/centos/root
xfs_growfs /dev/centos/root
tar --selinux --acl --xattr -xf /home/cloud.tar
rm -f /home/cloud.tar
cp /etc/fstab /etc/fstab.dist
vi /etc/fstab # removed relevant line
$ umount var/tmp/ # "bind" filesystem
systemctl stop rpcbind.service rpcbind.socket
tar --selinux --acl --xattr -cf /home/var.tar var # got some "socket ignored" messages
umount var/
lvremove /dev/centos/var # [y/n]: y
lvextend -l +100%FREE /dev/centos/root
xfs_growfs /dev/centos/root
tar --selinux --acl --xattr -xf /home/var.tar
rm -f /home/var.tar
vi /etc/fstab # removed relevant line
$ tar --selinux --acl --xattr -cf /home/tmp.tar tmp
umount /tmp
lvremove /dev/centos/tmp # [y/n]: y
lvextend -l +100%FREE /dev/centos/root
xfs_growfs /dev/centos/root
tar --selinux --acl --xattr -xf /home/tmp.tar
rm -f /home/tmp.tar
vi /etc/fstab # removed relevant line
$ tar --selinux --acl --xattr -cf /root/home.tar home
umount /home
lvremove /dev/centos/home # [y/n]: y
lvextend -l +100%FREE /dev/centos/root
xfs_growfs /dev/centos/root
tar --selinux --acl --xattr -xf /root/home.tar
rm -f /root/home.tar
vi /etc/fstab # removed relevant line
$ vi /etc/systemd/journald.conf
replaced Storage=none by Storage=persistent, i.e. reverted my earlier change
$ reboot # since working in a DRAC console in Firefox sucks
```

From <<http://rd.temenosgroup.com/browse/CMT-11915>>

```
$ lvremove /dev/centos/var_log # [y/n]: y
lvremove /dev/centos/var_log_audit # [y/n]: y
lvextend -l +100%FREE /dev/centos/root
xfs_growfs /dev/centos/root
vim /etc/fstab # removed commented code and uncommented the "swap" line
diff -u /etc/fstab{.dist,} # FYI
--- /etc/fstab.dist 2018-07-23 19:14:22.832362873 +0200
+++ /etc/fstab 2018-07-23 20:06:05.647138531 +0200
@@ -8,18 +8,11 @@
```

```

#
/dev/mapper/centos-root / xfs defaults 0 0
UUID=c1f7f9c5-ef3c-4c32-9078-04eee8161bed /boot xfs defaults,rw,nodev,noexec,nosuid 0 0
#/dev/mapper/centos-free /free xfs defaults 0 0
-/dev/mapper/centos-home /home xfs defaults,rw,nosuid,nodev 0 0
-/dev/mapper/centos-tmp /tmp xfs defaults,rw,nodev,nosuid,noexec 0 0
-/dev/mapper/centos-var /var xfs defaults,rw,nosuid 0 0
-#/dev/mapper/centos-var_log /var/log xfs defaults,rw,nodev,nosuid,noexec 0 0
-#/dev/mapper/centos-var_log_audit /var/log/audit xfs defaults,rw,nodev,nosuid,noexec 0 0
-#/dev/mapper/centos-swap swap swap defaults 0 0
+/dev/mapper/centos-swap swap swap defaults 0 0
tmpfs /dev/shm tmpfs defaults,nodev,nosuid,noexec 0 0
/tmp /var/tmp none rw,noexec,nosuid,nodev,bind 0 0
proc /proc proc rw,hidepid=2 0 0
/dev/cdrom /mnt/cdrom iso9660 ro,noexec,nosuid,nodev,noauto 0 0
-/dev/centos/lv_cloud /cloud xfs defaults 0 0
lausanshare.temenosgroup.com:/share_unix_users /nas/users nfs defaults 0 0
lausanshare.temenosgroup.com:/share_unix_tools /nas/tools nfs defaults 0 0
lausanshare.temenosgroup.com:/share_unix_system_backup /nas/system_backup nfs defaults 0 0
$ swapon -a
free
total used free shared buff/cache available
Mem: 263925440 2352808 259669412 1352 1903220 260662476
Swap: 16777212 0 16777212
$ lsblk # FYI
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 893.8G 0 disk
└─sda1 8:1 0 1G 0 part /boot
└─sda2 8:2 0 892G 0 part
 ├─centos-root 253:0 0 876G 0 lvm /
 └─centos-swap 253:1 0 16G 0 lvm [SWAP]

```

From <<http://rd.temenosgroup.com/browse/CMT-11915>>

```

$ nmap -Pn hemel-nexus.temenosgroup.com
Starting Nmap 5.51 (http://nmap.org) at 2016-09-12 18:02 CEST
Nmap scan report for hemel-nexus.temenosgroup.com (10.44.5.116)
Host is up (0.035s latency).
Not shown: 999 filtered ports
PORT STATE SERVICE
22/tcp open ssh
Nmap done: 1 IP address (1 host up) scanned in 10.17 seconds

```

From <<http://rd.temenosgroup.com/browse/CMT-10096>>

```

$ nmap localhost
Starting Nmap 5.51 (http://nmap.org) at 2016-09-12 16:23 BST
Nmap scan report for localhost (127.0.0.1)
Host is up (0.0036s latency).
Other addresses for localhost (not scanned): 127.0.0.1
Not shown: 994 closed ports
PORT STATE SERVICE
22/tcp open ssh
25/tcp open smtp
80/tcp open http
111/tcp open rpcbind
443/tcp open https
631/tcp open ipp

```

From <<http://rd.temenosgroup.com/browse/CMT-10096>>

```

$ cd /etc/sysconfig
sudo cp iptables{,.20160912}; sudo vim iptables; sudo diff -u iptables{,.20160912,}

```

```
--- iptables.20160912 2016-09-12 16:31:08.101038506 +0100
+++ iptables 2016-09-12 16:31:16.175038404 +0100
@@@ -8,6 +8,7 @@@
-A INPUT -p icmp -j ACCEPT
-A INPUT -i lo -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 22 -j ACCEPT
+-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT
-A INPUT -j REJECT --reject-with icmp-host-prohibited
-A FORWARD -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

From <<http://rd.temenosgroup.com/browse/CMT-10096>>

Secure lausftp (enable firewall, apply updates...) - Setting up the Firewall in unix

From <<http://rd.temenosgroup.com/browse/CMT-10118>>

<http://rd.temenosgroup.com/browse/CMT-9030> - Tools migration - Setup laulxtools1.temenosgroup.com and laulxtools2.temenosgroup.com

```
$ cd /var/yp
cp securenets{,.20150807}; vim securenets; diff securenets{.20150807,}
14a15
> 255.255.0.0 10.30.0.0
$ /sbin/init.d/nis.server stop
stopping rpc.ypasswd
stopping rpc.yupdated
stopping ypserv
stopping ypxfrd
stopping keyserv
$ /sbin/init.d/nis.server start
 starting NIS SERVER networking
 starting up the rpcbind
 rpcbind already started, using pid: 759
 domainname lau-ch.oams.com
 starting up the Network Information Service
 starting up the ypserv daemon
 /usr/lib/netsvc/yp/ypserv
 starting up the ypxfrd daemon
 /usr/sbin/ypxfrd
 starting up the rpc.ypasswdd daemon
 /usr/lib/netsvc/yp/rpc.ypasswdd /etc/passwd PWFILE=/etc/passwd
 starting up the rpc.yupdated daemon
 /usr/lib/netsvc/yp/rpc.yupdated
 starting up the keyserv daemon
 /usr/sbin/keyserv
```

From <<http://rd.temenosgroup.com/browse/CMT-9030>>

## Make & Sanitizer utilities

Thursday, April 30, 2020 9:28 AM

### Export Cl=1

```
gmake -j4 BITS=64 DEBUG=1 aaa_ddlgen 2>&1 | tee -a lax.log
```

Different Address Sanitizer Options:

<https://2600index.info/Links/34/3/github.com/google/sanitizers/wiki/AddressSanitizer.html>

[Triple'A Sanitizer debugging \(old page\) - R&D Products & Components - Confluence PROD \(temenos.com\)](#)

Building Sanitizer in 23.1.x (SCB)

- gmake -j4 COMPILER=gcc81 CHECK=sanitize DEBUG=1
- J - jobs
- Goto lauldomcmt1.temenosgroup.com execute command
- gmake sctpy.c scptl.c
- Again go back to laulxcmr2 and execute command
- gmake -j4 COMPILER=gcc81 CHECK=sanitize DEBUG=1 aaa\_srv
- Copy all the gcc81 libraries in to \$AAAHOME/lib64/Linux

To re-build the make files:

1. From the directory TA/25.4.08/triplea\_core/arch/unix
  - a. Delete & Copy \_cm.sh and Makefile
  - b. Delete CMakeCache.txt from cmake/Linux/64/debug:release:sanitizer
  - c. Include all the entries in multi-scm.properties
2. Remove the CMakeCache.txt and then trigger the \_cm.sh
3. triplea\_core/arch/win/VS150/BIT32/CMakeCache.txt, triplea\_core/arch/win/VS150/BIT64/CMakeCache.txt
4. 25.4.08/triplea\_core/arch/unix/cmake/Linux/64/sanitizer/src/CMakeFiles/aaa\_srv.dir flags.make
  - a. CXX\_FLAGS = -DLINUX -fPIC -rdynamic -std=c++14 -fsanitize=undefined -fsanitize=address -fsanitize=float-divide-by-zero -fsanitize=float-cast-overflow -fsanitize=bounds -fsanitize=alignment -fsanitize=object-size -fsanitize=strict -fsanitize=recover=address -g -D\_REENTRANT
5. 25.4.08/triplea\_core/arch/unix/cmake/Linux/64/sanitizer/src/CMakeFiles/aaa\_srv.dir/link.txt
  - a. /usr/local/opt/gcc-6.3.0/bin/g++ -DLINUX -fPIC -std=c++14 -fsanitize=undefined -fsanitize=address -fsanitize=float-divide-by-zero -fsanitize=float-cast-overflow -fsanitize=bounds -fsanitize=alignment -fsanitize=object-size -fsanitize=strict -fsanitize=recover=address -g -D\_REENTRANT

To show the compiler commands on the screen:

1. Modify the file triplea\_core/arch/unix/cmake/Linux/64/debug/CMakeCache.txt
  - a. CMAKE\_VERBOSE\_MAKEFILE:BOOL=TRUE
  - b. CMAKE\_EXPORT\_COMPILE\_COMMANDS:BOOL=ON

Special compilation usage for AIX:"

Compile all binaries in a special way for checking with Purify:"

gmake -j 4 CHECK=purify DEBUG=1"

Compile all binaries in a special way for doing some checks - Bounds objects of an known size

- Division by zero
- NULL data pointer < 512
- Stack corruption

gmake -j 4 CHECK=check DEBUG=1

Special compilation usage for Linux:

Compile all binaries in a special way for checking thread issues:

gmake -j 16 COMPILER=clang700 CHECK=thread DEBUG=1

Compile all binaries in a special way for checking memory issues:

Out-of-bounds accesses to heap, stack and globals

Use-after-free

Use-after-return (runtime flag ASAN\_OPTIONS=detect\_stack\_use\_after\_return=1)

Use-after-scope (clang flag -fsanitize-address-use-after-scope)

Double-free, invalid free

Memory leaks (experimental)

gmake -j 16 COMPILER=clang700 CHECK=address DEBUG=1

Compile all binaries in a special way for checking memory issues. Do not use yet :O Use gcc sanitize (llvm requires that all libraries are compiled in the same mode):

gmake -j 16 COMPILER=clang700 CHECK=memory DEBUG=1

Compile all binaries in a special way for checking memory issues:

gmake -j 16 COMPILER=gcc81 CHECK=sanitize DEBUG=1

Compile all binaries with the latest gcc:

gmake -j 16 COMPILER=gcc81 DEBUG=1

Compile all binaries with the latest gcc and the next major C++ 2017 standard

gmake -j 16 STD=C17 COMPILER=gcc81 DEBUG=1

Check all binaries with cppcheck

gmake CHECK=cppcheck

---

Checksum of the binary

>cksum aaa\_srv64

2854707414 57107371

---

<https://confluence.temenos.com/pages/viewpage.action?pageId=37127898>

<https://confluence.temenos.com/display/DEVWIKI/Triple%27A+Sanitizer+debugging>

# Oracle: sys user login password generation

17 August 2023 21:43

Encrypted password file generated and stored in \$ORACLE\_HOME/dbs

```
[oracle@bngdevlx25 dbs]$ orapwd file=orapwUTP1 password=manager format=12.2 force=y
```

# Generation of Explain Plans & Monitoring

Thursday, May 7, 2020 12:14 PM

```
set time on;
set timing on;
set serveroutput on size 32000;
set feedback on;
set linesize 132;
```

```
EXPLAIN PLAN FOR SELECT * FROM TABLE(dbms_xplan.display);
```

```
SELECT * FROM TABLE(dbms_xplan.display);
```

## External Functions from Oracle

Sunday, May 17, 2020 10:19 PM

```
SQL> create or replace library helprint as '/tap/CIP_LX_VM/aaahome/helprint.so';
2 /
```

Library created.

```
SQL> create or replace function print_hello(x double precision) return double precision as external name "print_hello"
2 library helprint language c parameters(x double, return);
3 /
```

Function created.

```
SQL> declare
2 arg1 double precision;
3 return_value double precision;
4 begin
5 arg1:=5;
6 return_value := print_hello(arg1);
7 dbms_output.put_line('Factorial is :'||to_char(return_value));
8 end;
8 /
```

```
SQL> set serveroutput on size 32000
```

```
SQL> l
1 declare
2 arg1 double precision;
3 return_value double precision;
4 begin
5 arg1:=5;
6 return_value := print_hello(arg1);
7 dbms_output.put_line(to_char(return_value));
8 end;
SQL> /
25
```

PL/SQL procedure successfully completed.

```
oracle 5482 1 0 05:35 ? 00:00:00 /tap/oracle/product/12.2.0.1/main/bin/tnslsnr callout_listener -inherit
oracle 7355 1 0 08:28 ? 00:00:00 /tap/oracle/product/12.2.0.1/main/bin/extproc (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=BEQ)))
```

How to debug c function?  
gdb -p 7355

```
$ORACLE_HOME/hs/admin/extproc.ora
```

```
SET TRACE_LEVEL=ON
SET DLL_DIRECTORY='/tap/CIP_LX_VM/aaahome'
SET EXTPROC_DLLS="/tap/CIP_LX_VM/aaahome/helprint.so,LD_LIBRARY_PATH=/lib64"
SET EXTPROC_DLLS=ANY
```

```
$ORACLE_HOME/network/admin/listener.ora
```

```
CALLOUT_LISTENER =
(ADDRESS_LIST =
(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC))
```

```
SID_LIST_CALLOUT_LISTENER=
(SID_DESC=
(SID_NAME=PLSExtProc)
(ORACLE_HOME=/tap/oracle/product/12.2.0.1/main)
(PROGRAM = extproc)
(ENVN = "EXTPROC_DLLS=/tap/CIP_LX_VM/aaahome/helprint.so")
```

```
$ORACLE_HOME/network/admin/tnsnames.ora
```

```
EXTPROC_CONNECTION =
(DESCRIPTION =
(ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC))
(CONNECT_DATA=(SID = PLSExtProc)(PRESENTATION=RO))
)
```

1. Restart the oracle
2. Lsnrctl start callout\_listener

Detailed explanation of step-by-step with example:

[http://rahulrasal.tripod.com/technical/oracle\\_extn\\_rtn\\_1.htm](http://rahulrasal.tripod.com/technical/oracle_extn_rtn_1.htm)

Troubleshooting:

In case process extproc is not getting created, it is due to tnslsnr only would have loaded the user .so.

To Bring up the extproc, rename the library into some name. Execute the PL/SQL or storec proc invoking the function. It will throw error that .so is not available. In the meantime, extproc process will come up as well.

Oracle will bring up the extproc as separate agent.

```
oracle 3991 3990 0 16:11 ? 00:00:00 oracleCLX (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
oracle 4001 1 0 16:11 ? 00:00:00 /tap/oracle/product/12.2.0.1/main/bin/extproc (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=BEQ)))
```

For detailed setup example:

1. <http://www.dba.ant.lviv.ua/articles/listener/extproc>
2. <https://westzg1.github.io/oracle/2019/02/24/extproc-use-different-user.html> - Each command reference

### 1. Configure the Oracle configuration files.

Following these steps exactly will ensure extproc will work. While you may have different listener.ora and tnsnames.ora files, remember, the goal here is to get extproc working. After that, a custom configuration can be put in place. If problems arise, this base configuration can be revisited for reference.

In the \$ORACLE\_HOME/network/admin directory, backup any current listener.ora file and create a new file with these contents:

```
listener_extproc
(address=(protocol=ipc) (key=extproc))
sid_list_listener_extproc
(sid_list=
(sid_desc=
(sid_name=extproc)
(oracle_home=)
(program=extproc))
```

```
)
)
NOTE: If using extproc32, set (program=extproc32)
```

In the \$ORACLE\_HOME/network/admin directory, backup any current tnsnames.ora file and create a new file with these contents:

```
extproc_connection_data=
(description=
(address=(protocol=ipc) (key=extproc))
(connect_data=(sid=extproc))
)
)
```

In the \$ORACLE\_HOME/network/admin directory, move any existing sqlnet.ora file to sqlnet.bak

From <<http://www.dba.ant.lviv.ua/articles/listener/extproc>>

## 2. Set the TNS\_ADMIN environment variable

In the \$ORACLE\_HOME/network/admin directory, issue the command:

```
For k shell
export TNS_ADMIN='pwd'
For c shell
setenv TNS_ADMIN `pwd`
```

NOTE: the ' character surrounding 'pwd' is the grave accent key, usually to the left of the "1" key on a standard 107 key PS2 keyboard. It is also the paired on the same key as the tilde (~).

## 3. Start the listener.

```
lsnrctl start listener_extproc
```

## 4. Use tnsping to test the extproc configuration. This step has to succeed.

```
tnsping extproc_connection_data
```

If an error message is received, revisit steps 5-7 or contact support

## 5. Create a file with the following C code (it is called shell.c for this note)

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
void sh(char *command) {
 int num;
 num = system(command);
}
```

## 6. Compile the code and generate the shared object

From <<http://www.dba.ant.lviv.ua/articles/listener/extproc>>

## 7. Change permissions of shell.so and copy the file to \$ORACLE\_HOME/lib

```
chmod 755 shell.so
cp shell.so $ORACLE_HOME/lib
```

From <<http://www.dba.ant.lviv.ua/articles/listener/extproc>>

## 8. Create a LIBRARY definition in Oracle

Logon to Oracle using a common user without using Oracle Net:  
sqlplus system/manager  
CREATE LIBRARY shell\_lib IS '<path to oracle\_home>/lib/shell.so';  
/

## 9. Create the PL/SQL Wrapper

```
CREATE OR REPLACE PROCEDURE shell(command IN char)
AS EXTERNAL
NAME "sh"
LIBRARY shell_lib
LANGUAGE C
PARAMETERS (command string);
/
```

## 10. Test the stored procedure:

```
exec shell('ls');
All you should see is "PL/SQL procedure successfully completed." which is good enough for this test and proves extproc is working properly. To see the output of the OS command passed to extproc, redirect the output to a text file:
exec shell('ls>output.txt');
A file called "output.txt" will be created which contains the output of the 'ls' command. If there is no output, supply a fullpath to an output file:
exec shell('ls>/u01/app/oracle/output.txt');
```

At this point, extproc is functional and is proven to work.  
Customization can now take place.

From <<http://www.dba.ant.lviv.ua/articles/listener/extproc>>



# Nuo DB References

Wednesday, May 27, 2020 9:54 AM

<https://doc.nuodb.com/nuodb/latest/api/c++/index.html>

Release Notes: <https://doc.nuodb.com/nuodb/latest/release-notes/>

C Driver APIs: <https://doc.nuodb.com/nuodb/latest/api/c/>

Deployment Models: <https://doc.nuodb.com/nuodb/latest/deployment-models/>

## RPC Commands and Usage

Friday, June 12, 2020 7:20 AM

To show all of the RPC services registered on the local machine use:

\$> rpcinfo

To show all of the RPC services registered with rpcbind on the machine named laulxcm2 use:

\$> rpcinfo laulxcm2

\$> rpcinfo -s laulxcm2

To delete the registration for version 1 of the walld (program number 100008 ) service for all transports use:

\$> rpcinfo -d 100008 1 or rpcinfo -d walld

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> rpcbind
rpcbind: another rpcbind is already running. Aborting
=====
```

```
service portmap stop
```

```
rm -f /var/run/portmap.state
```

```
service portmap start
```

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22020701810>>

## Remote Procedure Call APIs

Last Updated: 2021-04-13

The Remote Procedure Call (RPC) APIs include:

- [Authentication APIs](#)
- [Name-to-Address Translation APIs](#)
- [Network Selection APIs](#)
- [Transport-Independent Remote Procedure Call \(TI-RPC\) APIs](#)
- [External Data Representation \(XDR\) APIs](#)

These APIs are intended for programmers who develop distributed applications. They enable distributed applications to communicate with each other. Open Networking Computers (ONC) RPC was developed by Sun Microsystems and is used to easily separate and distribute a client application from a server by using the SUN RPC protocol. RPC includes a method of abstracting data, called eXternal Data Representation, or XDR, to allow communications to be abstracted at the API level.

Transport-Independent RPC (TI-RPC), or ONC+ RPC, is the latest incarnation of RPC. It provides a method of abstracting the underlying protocol used at the network layer, providing a more seamless transition from one protocol to another.

Note: These functions use header (include) files from the library QSYSINC, which is optionally installable. Make sure QSYSINC is installed on your system before using any of the functions. See [Header Files for Remote Procedure Call APIs](#) for the file and member name of each header file.

The following terms relate to the RPC APIs:

<b>RPCBind</b>	A daemon program that allows client programs to obtain the address of a service that is registered with the RPCBind daemon.
<b>RPCGen</b>	A compiler that accepts a remote-program interface definition written in the RPC language (RPCL), which is similar to the C programming language. From this definition, RPCGen produces C-language output for client stub functions, a server skeleton, XDR filter routines, and a header file.

For more information about RPCBind and RPCGen, see the [Control language](#) topic collection.

For more information about these APIs, see the [Using Sun TI-RPC to develop distributed applications](#) topic collection.

## Authentication APIs

Last Updated: 2021-04-13

The authentication APIs are used to provide authentication to the Transport-Independent Remote Procedure Call (TI-RPC) applications. These APIs enable a client to pass appropriate information as required by a remote service.

The authentication APIs are:

- [auth\\_destroy\(\)](#) (Destroy authentication information) destroys the authentication information structure that is pointed to by the auth parameter.
- [authnone\\_create\(\)](#) (Create null authentication) creates and returns a default RPC authentication handle that passes null authentication information with each remote procedure call.
- [authsys\\_create\(\)](#) (Create authentication with OS permission) creates and returns an RPC authentication handle that contains authentication information.

From <[https://www.ibm.com/docs/en/1/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc2.htm](https://www.ibm.com/docs/en/1/7.4?topic=ssw_ibm_i_74/apis/rpc2.htm)>

## Name-to-Address Translation APIs

Last Updated: 2021-04-13

The name-to-address translation APIs allow an application to obtain the address of a service on a specified host in a transport-independent manner. These APIs are typically used by the applications that use the expert level TI-RPC APIs.

The name-to-address translation APIs are:

- [netdir\\_free\(\)](#) (Free netdir structures) frees structures that are allocated by name-to-address translation APIs.
- [netdir\\_getbyaddr\(\)](#) (Translate a netbuf address to a host) maps addresses into host names and service names.
- [netdir\\_getbyname\(\)](#) (Translate a given host-service pair) maps the host name and service name that are specified in the service parameter to a set of addresses that are consistent with the transport identified in the netconfig structure.
- [netdir\\_options\(\)](#) (Access transport-specific capabilities) provides interfaces to transport-specific capabilities such as the broadcast address and reserved port facilities of TCP and UDP.
- [netdir\\_sporror\(\)](#) (Indicate an error in an NTA Routine) issues an informational message that states why one of the name-to-address translation APIs may have failed.
- [taddr2uaddr\(\)](#) (Translate a local address) translates a transport-specific (local) address to a transport-independent (universal) address.
- [uaddr2taddr\(\)](#) (Translate a universal address) translates a transport-independent (universal) address to a transport-specific (local) address (netbuf structure).

From <[https://www.ibm.com/docs/en/1/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc3.htm](https://www.ibm.com/docs/en/1/7.4?topic=ssw_ibm_i_74/apis/rpc3.htm)>

## Network Selection APIs

Last Updated: 2021-04-13

The network selection APIs provide the means to choose the transport on which an application should run. These APIs are typically used by the applications that use the intermediate-level and expert-level TI-RPC APIs.

The network selection APIs are:

- [endnetconfig\(\)](#) (Release the pointer in the netconfig file) releases the pointer to the records stored in the netconfig file.
- [freenetconfig\(\)](#) (Free the netconfig structure) frees the netconfig structure that is returned from the call to the getnetconfig() function.
- [getnetconfig\(\)](#) (Return current record from the netconfig file) returns the pointer to the current record in the netconfig file and increments its pointer to the next record.
- [getnetconfig1\(\)](#) (Return a pointer to a netconfig structure) returns the pointer to the netconfig structure that corresponds to the input netid.
- [setnetconfig\(\)](#) (Initialize the pointer in the netconfig file) initializes the record pointer to the first entry in the netconfig file.

From <[https://www.ibm.com/docs/en/1/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc4.htm](https://www.ibm.com/docs/en/1/7.4?topic=ssw_ibm_i_74/apis/rpc4.htm)>

## Transport-Independent Remote Procedure Call APIs

Last Updated: 2021-04-13

The Transport-Independent Remote Procedure Call (TI-RPC) functions allow distributed applications to communicate with each other in a transport independent fashion. These APIs are provided to perform Transport-Independent Remote Procedure Calls.

The TI-RPC APIs are divided into five separate sections:

- [Simplified APIs](#)
- [Top-level APIs](#)
- [Intermediate-level APIs](#)
- [Expert-level APIs](#)
- [Other APIs](#) (These APIs work with the other four sections.)

### Simplified APIs

Last Updated: 2021-04-13

The simplified interfaces specify the type of transport to use. Applications using this level do not have to explicitly create handles. These APIs combine all the API calls into one procedure and can be used to quickly develop an RPC service and corresponding client application.

The simplified APIs are:

- [rpc\\_call\(\)](#) (Call a remote procedure on the specified system) calls the remote procedure that is associated with program, versnum, and procnum on the machine, host.
- [rpc\\_reg\(\)](#) (Register a procedure with RPC service package) registers a procedure with the RPC service package (RPCBind).

From <[https://www.ibm.com/docs/en/1/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc5a.htm](https://www.ibm.com/docs/en/1/7.4?topic=ssw_ibm_i_74/apis/rpc5a.htm)>

### Top-level APIs

Last Updated: 2021-04-13

The top-level APIs allow more customization to both the client and the service while still maintaining an ease of development and use.

The top-level APIs are:

- [clnt\\_call\(\)](#) (Call a remote procedure associated with the client) calls the remote procedure that is associated with the client handle pointed to by the clnt parameter.
- [clnt\\_control\(\)](#) (Change information about a client object) is used to change or retrieve information about a client object.
- [clnt\\_create\(\)](#) (Create a generic client handle) creates and returns a generic client handle for program program and version versnum on a remote host where the server is located.
- [clnt\\_destroy\(\)](#) (Destroy the RPC Client's Handle) destroys the RPC client's handle.
- [svc\\_create\(\)](#) (Create a server handle) creates server handles for all the transports belonging to the class nettype.
- [svc\\_destroy\(\)](#) (Destroy an RPC service transport handle) destroys an RPC service transport handle.

## Intermediate-level APIs

Last Updated: 2021-04-13

The intermediate-level APIs are similar to the top-level APIs, but the user applications select the transport-specific information by using network selection APIs. These APIs allow more customization and greater control over the transport that is used.

The intermediate-level APIs are:

- [cint\\_tp\\_create\(\)](#) (Create a client handle) creates a client handle for the program progrum, the version versnum, and for the transport specified by netconf.
- [svc\\_tp\\_create\(\)](#) (Create a server handle) creates a server handle for the network specified by netconf, and registers itself with the RPC service package (RPCBind).

From <[https://www.ibm.com/docs/en/I/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc5c.htm](https://www.ibm.com/docs/en/I/7.4?topic=ssw_ibm_i_74/apis/rpc5c.htm)>

## Expert-level APIs

Last Updated: 2021-04-13

The expert-level APIs are the lowest layer of TI-RPC APIs available on the server. The application directly chooses the transport to use, and has an increased level of control over the details of the client-side and the server-side transport handles. These APIs are similar to the intermediate-level APIs with an additional control provided by using the name-to-address translation APIs.

The expert-level APIs are:

- [cint\\_tif\\_create\(\)](#) (Create a client handle) creates an RPC client handle for the remote program progrum and version versnum.
- [rpcb\\_getaddrin\(\)](#) (Find the universal address of a service) is an interface to the RPC service package (RPCBind).
- [rpcb\\_set\(\)](#) (Register the server address with the RPCBind) is an interface to the RPC service package (RPCBind) daemon.
- [rpcb\\_unset\(\)](#) (Unregister Their Addresses) is an interface to the RPC service package (RPCBind), which destroys the mapping between the triple (program, versnum, netconf->nc\_netid) and the address on the host machine's RPCBind service.
- [svc\\_reg\(\)](#) (Associate program and version with dispatch) associates progrum and versnum with the service dispatch procedure dispatch.
- [svc\\_tif\\_create\(\)](#) (Create a server handle) creates an RPC server handle.
- [svc\\_unreg\(\)](#) (Delete an association set by svc\_reg()) removes mappings between dispatch functions and the service procedure that is identified by the progrum and versnum parameters.

From <[https://www.ibm.com/docs/en/I/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc5d.htm](https://www.ibm.com/docs/en/I/7.4?topic=ssw_ibm_i_74/apis/rpc5d.htm)>

## Other APIs

Last Updated: 2021-04-13

These APIs are used primarily in conjunction with all the layers except the simplified-level APIs. These APIs provide methods for sending back errors from the service to the client, for freeing space allocated to the clients and services, and for enhancing error detection and reporting.

The system functions that work with applications from the previous four categories are:

- [cint\\_freeres\(\)](#) (Free data allocated by the RPC or XDR system) frees any data allocated by the RPC or XDR system when it decoded the results of an RPC call.
- [cint\\_geterr\(\)](#) (Get the error structure from the client handle) copies the error structure out of the client handle to the structure at address errp.
- [svc\\_freeargs\(\)](#) (Free data allocated by the RPC or XDR system) frees any data allocated by the RPC or XDR functions when those functions decode the arguments to a service procedure by using svc\_getargs().
- [svc\\_getargs\(\)](#) (Decode the arguments of an RPC request) decodes the arguments of an RPC request associated with the RPC service transport handle xprt.
- [svc\\_getpcaller\(\)](#) (Get the network address of the caller) retrieves the network address of the remote client who is calling the procedure that is associated with the RPC service transport handle.
- [svc\\_run\(\)](#) (Wait for RPC requests to arrive) waits for RPC requests to arrive and calls the appropriate service procedure.
- [svc\\_sendreply\(\)](#) (Send the results of a procedure call to a remote client) sends the results of a procedure call to a remote client.
- [svcerr\\_decode\(\)](#) (Send information to client for decode error) sends information to the remote client that the service dispatch routine could not decode the remote parameters.
- [svcerr\\_noproc\(\)](#) (Send information to client for procedure number error) sends information to the client that the service dispatch routine did not implement the procedure number that the caller requested.
- [svcerr\\_systemerr\(\)](#) (Send information to client for system error) sends information to the remote client that the service dispatch routine detected a system error not covered by any particular protocol.
- [svcerr\\_weakauth\(\)](#) (Send Authentication Error Indication to a Client) sends information to a remote client that the service dispatch function detected an authentication error.

From <[https://www.ibm.com/docs/en/I/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc5e.htm](https://www.ibm.com/docs/en/I/7.4?topic=ssw_ibm_i_74/apis/rpc5e.htm)>

## External Data Representation APIs

Last Updated: 2021-04-13

The External Data Representation (XDR) functions define a uniform way to represent data types and define a language that can describe data structures of arbitrary complexity in a standard way.

All XDR APIs can translate data in two directions:

<b>Serializing</b>	Translation from a local machine data representation to canonical XDR form.
<b>Deserializing</b>	Translation from canonical XDR form to a local machine representation.

The XDR APIs are:

- [xdr\\_array\(\)](#) (Translate between arrays and their XDR) is a filter primitive that translates between variable-length arrays and their corresponding external representations.
- [xdr\\_bool\(\)](#) (Translate between Booleans and their XDR) is a filter primitive that translates between Booleans (C integers) and their external representations.
- [xdr\\_bytes\(\)](#) (Translate between counted byte arrays and their XDR) is a filter primitive that translates between counted byte arrays and their external representations.
- [xdr\\_char\(\)](#) (Translate between characters and their XDR) is a filter primitive that translates between C-language characters and their external representation.
- [xdr\\_double\(\)](#) (Translate between double-precision and XDR) is a filter primitive that translates between C-language double-precision numbers and their external representations.
- [xdr\\_double\\_char\(\)](#) (Translate between two-byte characters) is a filter primitive that translates between C-language 2-byte characters and their external representation.
- [xdr\\_enum\(\)](#) (Translate between enumeration and XDR) is a filter primitive that translates between C-language enumeration (enum) and its external representation.
- [xdr\\_float\(\)](#) (Translate between floats and their XDR) is a filter primitive that translates between C-language floating-point numbers (normalized single floating-point numbers) and their external representations.
- [xdr\\_free\(\)](#) (Generic freeing function) recursively frees the object pointed to by the pointer passed in.
- [xdr\\_int\(\)](#) (Translate between integers and their XDR) is a filter primitive that translates between C-language integers and their external representation.
- [xdr\\_long\(\)](#) (Translate between long integers and their XDR) is a filter primitive that translates between C-language long integers and their external representations.
- [xdr\\_netobj\(\)](#) (Translate between netobj structures and their XDR) is a filter primitive that translates between variable-length opaque data and its external representation.
- [xdr\\_opaque\(\)](#) (Translate between fixed-size data and its XDR) is a filter primitive that translates between fixed-size opaque data and its external representation.
- [xdr\\_pointer\(\)](#) (Provide pointer chasing within structures) provides pointer chasing within structures and serializes null pointers.
- [xdr\\_reference\(\)](#) (Provide pointer chasing within structures) is a filter primitive that provides pointer chasing within structures.
- [xdr\\_short\(\)](#) (Translate between short integers and their XDR) is a filter primitive that translates between C-language short integers and their external representation.
- [xdr\\_string\(\)](#) (Translate between strings and their XDR) is a filter primitive that translates between C-language strings and their corresponding external representations.
- [xdr\\_u\\_char\(\)](#) (Translate between unsigned characters and their XDR) is a filter primitive that translates between unsigned C-language characters and their external representations.
- [xdr\\_u\\_int\(\)](#) (Translate between an unsigned integer and its XDR) is a filter primitive that translates between C-language unsigned integers and their external representations.
- [xdr\\_u\\_long\(\)](#) (Translate between an unsigned long and its XDR) is a filter primitive that translates between C-language unsigned long integers and their external representations.
- [xdr\\_u\\_short\(\)](#) (Translate between an unsigned short and its XDR) is a filter primitive that translates between C-language unsigned short integers and their external representations.
- [xdr\\_union\(\)](#) (Translate between unions and their XDR) is a filter primitive that translates between discriminated C unions and their corresponding external representations.
- [xdr\\_vector\(\)](#) (Translate between arrays and their XDR) is a filter primitive that translates between fixed-length arrays and their corresponding external representations.
- [xdr\\_void\(\)](#) (Supply an XDR function to the RPC system) has no parameters.
- [xdr\\_wrapstring\(\)](#) (Call the xdr\_string() function) is a primitive that calls the xdr\_string(xdr, sp, maxuint) API, where maxuint is the maximum value of an unsigned integer.

From <[https://www.ibm.com/docs/en/I/7.4?topic=ssw\\_ibm\\_i\\_74/apis/rpc6.htm](https://www.ibm.com/docs/en/I/7.4?topic=ssw_ibm_i_74/apis/rpc6.htm)>

From <<https://www.ibm.com/docs/en/I/7.4?topic=category-remote-procedure-call-api>>

## RPC APIs Documentation

<https://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.infocenter.dc35400.1500/html/osref/X60481.htm>

Software Developer Kit 15.0 > Open Server Server-Library/C Reference Manual > Routines

Chapter 3: Routines

### **srv\_reparam**

**Description**

Describe a parameter for a registered procedure being defined, or supply data for the execution of a registered procedure.

**Syntax**

```
CS_RETURNCODE srv_reparam(spp, param_namep, nameLEN,
 type, datalen, datap)
```

**Parameters**

**spp**

A pointer to an internal thread control structure.

**param\_namep**

A pointer to the name of the parameter. When registering the procedure, this parameter is mandatory. When invoking the procedure, this parameter can be null if the parameters are given in the same sequence they were defined when the procedure was registered.

**nameLEN**

The length of the parameter name. If the **param\_namep** is null terminated, **nameLEN** can be CS\_NULLTERM.

**type**

The datatype of the parameter. See "Types" for a list of Open Server datatypes.

**datalen**

The length of the parameter's data. This parameter is ignored for fixed length datatypes. Set **datalen** to 0 to indicate a null data value. If a client fails to provide parameter values, the Open Server application can set the length of a default value here. To define a parameter with no default value, set **datalen** to SRV\_NODEFAULT.

**datap**

A pointer to the data. If registering the procedure, the value in **datap** is the default value for future invocations of the procedure. If invoking the procedure, set **datap** to NULL to accept the default value.

**Returns**

Table 3-102: Return values (srv\_reparam)

Returns	To indicate
CS_SUCCEED	The routine completed successfully.

---

Software Developer Kit 15.0 > Open Server Server-Library/C Reference Manual > Routines

Chapter 3: Routines

### **srv\_rpclassname**

**Description**

Return the name component of the current remote procedure call's designation.

**Syntax**

```
CS_CHAR *srv_rpclassname(spp, lenp)
```

**Parameters**

**spp**

A pointer to an internal thread control structure.

**lenp**

A pointer to the buffer that will contain the length of the RPC name. **lenp** can be NULL, in which case the length of the RPC name is not returned.

**Returns**

Table 3-108: Return values (srv\_rpclassname)

Returns	To indicate
A pointer to the null terminated name component of the current RPC's designation.	The location of the database component of the current RPC's designation.
A null pointer	There is no current RPC. Open Server sets <b>lenp</b> to -1 and raises an informational error.

**Examples**

**Example 1**

```
#include <ospublic.h>
/*
** Local Prototype.
*/
CS_RETURNCODE ex_srv_rpclassname PROTOTYPE(
SRV_PROC *sp,
```

# Process & rpc program & port numbers

Tuesday, June 16, 2020 3:34 PM

```
netstat -tulpn|grep <port>
Check the exe file in the /proc/pid/exe
```

## C APIs for memory allocations (malloc & sys calls)

Monday, June 15, 2020 10:44 PM

```
mmap
Sbrk
Mallinfo
Malloc
Malloc_hook
Malloc_info
Malloc_stats
Malloc_trim
Mcheck
Mtrace
Posix_memalign
```

<https://man7.org/linux/man-pages/man3/mallopt.3.html>

[https://www.gnu.org/software/libc/manual/html\\_node/Malloc-Tunable-Parameters.html](https://www.gnu.org/software/libc/manual/html_node/Malloc-Tunable-Parameters.html)

### Malloc Tunable Parameters

You can adjust some parameters for dynamic memory allocation with the mallopt function. This function is the general SVID/XPG interface, defined in malloc.h.

Function: `int mallopt (int param, int value)`

Preliminary: | MT-Unsafe init const:mallopt | AS-Unsafe init lock | AC-Unsafe init lock | See [POSIX Safety Concepts](#).

When calling mallopt, the param argument specifies the parameter to be set, and value the new value to be set. Possible choices for param, as defined in malloc.h, are:

#### M\_MMAP\_MAX

The maximum number of chunks to allocate with mmap. Setting this to zero disables all use of mmap.

The default value of this parameter is 65536.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_MMAP\_MAX\_ to the desired value.

#### M\_MMAP\_THRESHOLD

All chunks larger than this value are allocated outside the normal heap, using the mmap system call. This way it is guaranteed that the memory for these chunks can be returned to the system on free. Note that requests smaller than this threshold might still be allocated via mmap.

If this parameter is not set, the default value is set as 128 KiB and the threshold is adjusted dynamically to suit the allocation patterns of the program. If the parameter is set, the dynamic adjustment is disabled and the value is set statically to the input value.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_MMAP\_THRESHOLD\_ to the desired value.

#### M\_PERTURB

If non-zero, memory blocks are filled with values depending on some low order bits of this parameter when they are allocated (except when allocated by calloc) and freed. This can be used to debug the use of uninitialized or freed heap memory. Note that this option does not guarantee that the freed block will have any specific values. It only guarantees that the content the block had before it was freed will be overwritten.

The default value of this parameter is 0.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_MMAP\_PERTURB\_ to the desired value.

#### M\_TOP\_PAD

This parameter determines the amount of extra memory to obtain from the system when an arena needs to be extended. It also specifies the number of bytes to retain when shrinking an arena. This provides the necessary hysteresis in heap size such that excessive amounts of system calls can be avoided.

The default value of this parameter is 0.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_TOP\_PAD\_ to the desired value.

#### M\_TRIM\_THRESHOLD

This is the minimum size (in bytes) of the top-most, releasable chunk that will trigger a system call in order to return memory to the system.

If this parameter is not set, the default value is set as 128 KiB and the threshold is adjusted dynamically to suit the allocation patterns of the program. If the parameter is set, the dynamic adjustment is disabled and the value is set statically to the provided input.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_TRIM\_THRESHOLD\_ to the desired value.

#### M\_ARENA\_TEST

This parameter specifies the number of arenas that can be created before the test on the limit to the number of arenas is conducted. The value is ignored if M\_ARENA\_MAX is set.

The default value of this parameter is 2 on 32-bit systems and 8 on 64-bit systems.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_ARENA\_TEST to the desired value.

#### M\_ARENA\_MAX

This parameter sets the number of arenas to use regardless of the number of cores in the system.

The default value of this tunable is 0, meaning that the limit on the number of arenas is determined by the number of CPU cores online. For 32-bit systems the limit is twice the number of cores online and on 64-bit systems, it is eight times the number of cores online. Note that the default value is not derived from the default value of M\_ARENA\_TEST and is computed independently.

This parameter can also be set for the process at startup by setting the environment variable MALLOC\_ARENA\_MAX to the desired value.

From <[https://www.gnu.org/software/libc/manual/html\\_node/Malloc-Tunable-Parameters.html](https://www.gnu.org/software/libc/manual/html_node/Malloc-Tunable-Parameters.html)>

# Certificate management - generate, install - SSL for finserver

12 October 2023 10:43

## Generate a Certificate Signing Request (CSR) from your New Keystore

1. In Keytool, type the following command: keytool -certreq -alias server -file csr.txt -keystore your\_site\_name.jks. ...
2. When prompted, enter the password you created earlier (when you created your new keystore).
3. In your current directory, csr.

## Generate private key and CSR from a Linux environment

4. Log in to your account via SSH.
5. At the command prompt, type the following command: openssl req -new -newkey rsa:2048 -nodes -keyout server.key -out server.crt.

```
From <https://www.google.com/search?q=keytool+command+to+generate+csr+and+private+key&sca_esv=572772429&source=hp&ei=638nZabvEZqr-ObhmoSYAQ&iflsig=AO6bgOgAAAAAZSeN-dEiL4j65Mhae61ylaEAIBSPovY&oq=keytool+command+to+generate+gs_lp=Egdnd3Mtd2l6lhtZXl0b29iGNvbW1hbmQgdG8gZ2VuZXJhdGUgAggAMgUQABIABDfEAAYgAQuBRAAGIAEmgUQAbiABDfEAAYgAQuBRAAGIAEmgUQAbiABDfEAAYgAQuBRAAGIAEmgUQAbiABEi0ZFAAWIRacAB4AJABAjBjwOgAcEWqgElMjEuNS4wLjG4AQPIAQD4AQHCAsQAbiABBixAxiDAcICCBuGiAEGLEDwgIFEC4ygATCAsQLhiABBixAxiDAcICCxAuGloFGLEDGIMBwg!IEAYgAQySOPCAGcQAbiABBgK&sclient=gws-wiz>
```

<https://www.digicert.com/kb/csr-ssl-installation/tomcat-keytool.htm>

<https://cheapsslsecurity.com/blog/csr-how-to-generate-private-key-from-certificate/>

```
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> mkdir new_cert
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> cd new_cert
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config/new_cert> ls -lrt
total 0
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config/new_cert> openssl genrsa -out privkey.pem 2048
Generating RSA private key, 2048 bit long modulus (2 primes)
.....+++++
e is 65537 (0x100001)
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config/new_cert> ls -lrt
total 4
-rw----- 1 dev dba 1679 Jan 31 12:37 privkey.pem
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config/new_cert> [REDACTED]

dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config/new_cert> openssl req -new -config openssl.cnf -x509 -key ./privkey.pem -out cacert.pem -d subj "/C=CH/ST=Vaud/L=Renens/O=Temenos/OU=Lab/CN=bnngtapixl.temenosgroup.com"
Can't open openssl.cnf for reading. No such file or directory
23341708433216:error:02001002:system library:fopen:No such file or directory:crypto/bio/bss_file.c:69:fopen('openssl.cnf','r')
23341708433216:error:060D000B:BIO routines:BIO_new_file:can't find file:crypto/bio/bss_file.c:76:
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config/new_cert> cd ../
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> ls -lrt
total 52
-rwxr-xr-x 1 dev dba 17857 Jan 22 19:09 log4plus.properties
-rw----- 1 dev dba 220 Jan 23 10:39 pass_store.properties
-rw----- 1 dev dba 1679 Jan 24 17:55 privkey.pem
-rw-r----- 1 dev dba 1367 Jan 24 17:58 cacert.pem
-rw-r----- 1 dev dba 11255 Jan 24 18:03 openssl.cnf
drwxr-x--- 2 dev dba 68 Jan 30 18:15 OC5_certificates/
-rw-r----- 1 dev dba 2726 Jan 30 18:38 combine.crt
-rw-r-xr-x 1 dev dba 387 Jan 30 18:41 aaa_srv.ini
drwxr-x--- 2 dev dba 25 Jan 31 12:37 new_cert/
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> cp -rf openssl.cnf /oams/d_ora_25_1/aaa/current/config/new_cert
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config>
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config>
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config>
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> openssl req -new -config openssl.cnf -x509 -key ./privkey.pem -out cacert.pem -days 365 -subj "/C=CH/ST=Vaud/L=Renens/O=Temenos/OU=Lab/CN=bnngtapixl.temenosgroup.com"
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> ls -lrt
total 52
-rwxr-xr-x 1 dev dba 17857 Jan 22 19:09 log4plus.properties
-rw----- 1 dev dba 220 Jan 23 10:39 pass_store.properties
-rw----- 1 dev dba 1679 Jan 24 17:55 privkey.pem
-rw-r----- 1 dev dba 11255 Jan 24 18:03 openssl.cnf
drwxr-x--- 2 dev dba 68 Jan 30 18:15 OC5_certificates/
-rw-r----- 1 dev dba 2726 Jan 30 18:38 combine.crt
-rwxr-xr-x 1 dev dba 387 Jan 30 18:41 aaa_srv.ini
drwxr-x--- 2 dev dba 44 Jan 31 12:37 newCert/
-rw-r----- 1 dev dba 1367 Jan 31 12:37 cacert.pem
dev@bnngtapixl.temenosgroup.com:/oams/d_ora_25_1/aaa/current/config> cd [REDACTED]
```

```
dev@bngtapi1:~/oams/d_ora_25_1/aaa/current/config
```

```
[listener]
certificate=/oams/d_ora_25_1/aaa/current/config/cacert.pem
privateKey=/oams/d_ora_25_1/aaa/current/config/privkey.pem
trustStore=/oams/d_ora_25_1/aaa/current/config/cacert.pem

[FINSRV_NAME]
#listener.host=localhost
#listener.port=7070
#listener.ssl=true

[D_ORA_25_1_S1]
listener.host=bngtapi1.temenosgroup.com
listener.port=48610
listener.ssl=true
listener.mutualTLS=true
```

```
dev@bngtapi1:~/oams/d_ora_25_1/aaa/current/config
```

```
-----BEGIN CERTIFICATE-----
MIIDxTCCAq2gAwIBAgIUXV3XOjM4QTj3qsdZm0Nz0052gHAWDQYJKoZIhvcNAQEL
BQAwcjELMAkGA1UEBhMCQ0gxDTALBgNVBAgMBFZhdbWQxDzANBgNVAcMB1JlbmVu
czEQMA4GA1UECgwHVGVtZW5vczEMMAoGA1UECwwDTGFiMSMwIQYDVQQDDBpibmd0
YXBseDEudGVtZW5vc2dyb3wLmNbTAeFw0yNDAxMzEwNzA3NDlaFw0yNTAxMzAw
NzA3NDlaMHIXCzAJBgNVBAYTAkNIMQ0wCwYDVQQIDARWYXVvMQ8wDQYDVQQHDAZS
ZWS1bnMxEAOBgNVBAoMB1RlbWVub3MxDDAKBgNVBAgMA0khYjEjMCEGA1UEAwaa
Ym5ndGFwbHgxLnRlbWVub3Nncm91cC5jb20wggiMA0GCSqGSIb3DQEBAQUAA4IB
DwAwggEKAoIBAQDmvSVL/jOtQuUoNDmkI819JlWvywXPzVn0N51RloeAnicL8WIA
YSPzUb6rWMbzYu40DS1gvYAfgPyBx1edkEaIzqgeLJvxi0j+6+ItSwz5vk9r4sg
pJICme9gOSiXmf9UrniqpfnSmkF4JqjHz9pqMG7jz51v+IdoZ5dXrcVnQouteB4
f12UadgyiS/VUFQi4SwGAIX4SD2z3VommYlMjp2xrRwQezM7Wpi9qRrPjMBJEwr
abv0r+MpS9ajfLbYJNFae01lbpw6R6JGxJLNiauTx/tEVcOfqg2wdrCyBDsTsYxs
biPCJCNd4CPtI3T1Vhv28a3jxRf6C2QK4vQ3AgMBAAGjUzBRMB0GA1UdDgQWBBS8
cJV4D3DrUvHcDsMkV4b6WB5zyjAfBgnVHSMEGDAwqBS8cJV4D3DrUvHcDsMkV4b6
WB5zYjAPBgnVHRMBAf8EBTADAQH/MA0GCSqGSIb3DQEBCwUAA4IBAQCl93jk1S51
NQ/9/K2b2WbzYbgh4c8tpc5UxaAqnoYehh6sheerqR7iCqFQa1SiY8j9o++k+0U
zC9TU9f5n6VXvSj6aBjn32pMefQsASmY6RDFGMsliopBoJ/UVwahQdxNYwvuk/Hi
H8uUdq9cd0s8o4ltgCFvoWCX3UUHcyXj638bgqHhtSCBYdk/eIIr9rXH9Uxfy96
1JQT/mqn5pgWEVYqHFQPNXe3eoH0y87MqW128y9wgvfmeZOK77JfDHxyfm9ziykz
Ft1f0cm5BlmWeCayY+P8Qsu2VOnueE0hMCx0AGzbpeACJvAmd7gIGU/1/kAwII0J
6ltXXPK71ldY
-----END CERTIFICATE-----
```

## Oracle & Sybase, Session Creation(appl\_session) & RPC Execution

Friday, July 3, 2020 12:31 PM

Execute the RPC call in Oracle in aaa\_sql

```
=====
/tap/CIP_LX_VM/aaahome->/aaa sql -Uaaa -Paaaaa -SCIP_LX_VM_ORA_S1
```

```
select 1 from
```

```
go
```

```
1
```

```
=====
(1 row affected)
```

```
#EXEC set_current_appl_session 'AVGB6MD1UVP2XD9OZYNGMV61SLXXKSJC3CZ3TNVPM0BMP'
```

```
go
```

```
=====
(1 row affected)
```

```
=====
From SQL Developer:
```

```
1 alter session set current_schema=aaamaindb;
2 select * from appl_session order by creation_d desc;
3 exec aaamaindb.set_current_appl_session('JOLGWIWUDU8W6RZ04YGDEYAO0025K2XIDQGESK9E84IETBM');
```

ID	CODE	CREATION_D	APPL_USER_ID	APPL_CHANNEL_ID	DATA_PROFILE_ID	FORMAT_PROFILE_ID	FUNC_SECU_PROF_ID
1	159005 ID6NTU4QHQLWKDKJJDB8ILLW9FEQTX4KLI6GF4OMIKZWURF9	21-MAY-21 03.50.26.821939000 AM	1	4	1	1001	1
2	158005 JOLGWIWUDU8W6RZ04YGDEYAO0025K2XIDQGESK9E84IETBM	20-MAY-21 03.53.03.728588000 AM	1	4	1	1001	1
3	157009 AVGB6MD1UVP2XD9OZYNGMV61SLXXKSJC3CZ3TNVPM0BMP	19-MAY-21 12.46.47.490045000 PM	1	4	1	1001	1
4	157005 M11HNZ399SVE6K4VMH7JENCECMCMOWBDOOKF982L92A7Z	19-MAY-21 05.19.32.582008000 AM	1	4	1	1001	1
5	156013 1ZVUIJVUY3O3O4332THOUSEMBEOIS13WE1WYOD4MYXLCI	18-MAY-21 05.40.17.451733000 PM	1	4	1	1001	1
6	153008 ZA2SFQRTPTWH13B1BPBXJ0IL8107GKA8CHHRU9Y63BU8H	18-MAY-21 06.48.42.107233000 AM	2	4	1	1	1
7	152008 5A4UTU4LVFGPCFDSTD95HMCC8SEQA9ESCFVSMCR7JM01	14-MAY-21 10.12.15.478113000 AM	2	4	1	1	1
8	152005 FV0K87J0H30W71CM2RBYTSL1V9TQClA8P6WMFSP0ASCBX	14-MAY-21 10.11.13.938179000 AM	1	4	1	1001	1
9	151004 8HXBR459XMYYT2AW3DAG5YMHA16YFGE4AG4XQRXSNRQPZ	12-MAY-21 04.54.06.596281000 AM	1	4	1	1001	1
10	149009 KT2017KYXX8211WNW8EZOM6ABX12D7WCFTNC73ML1132C	11-MAY-21 08.24.52.724950000 AM	2	4	1	1	1
11	149005 9W0GFSG0WURBR883R81U1PHKSADXAM4ARSQTX3ATPVWJB10	11-MAY-21 08.23.45.067824000 AM	1	4	1	1001	1
12	147009 HK4T95728AYCYV3AD3N2610NKJCA2MMSMN75TDFTAQZ1	10-MAY-21 04.32.31.528817000 AM	2	4	1	1	1
13	147005 4YIDS43DUPQJV1CBJKEJ70XSFWPH6Y07S7MJ0CU1VEBMA	10-MAY-21 04.31.18.708948000 AM	1	4	1	1001	1
14	145008 F9B4SFUGHPW2BTJMSGI31SWTT32J3TCM9HMVBCU9F2ZG	07-MAY-21 04.00.04.413676000 AM	2	4	1	1	1
15	145004 F3853E9YSXECW3ETIDEIK4642WEOK3FQP8V2GXLO4UUBOS	07-MAY-21 03.58.58.980458000 AM	1	4	1	1001	1
16	143008 E60FUPVHTXTE1LY1ZSYW7SG5ZDKSY5DVOWSV8DOSOE44	06-MAY-21 06.32.54.236545000 AM	2	4	1	1	1
17	143004 XAQX084RLJK9SXFBMRMGZTSBZ9H8TBAXL8DWYZJUHJ9EQ	06-MAY-21 06.31.58.640040000 AM	1	4	1	1001	1
18	140008 O2TFU8OSCVLYUDT6XUTYBZBXA3BFMOEDXTEVOR6G09RU6H	04-MAY-21 08.10.41.226623000 AM	2	4	1	1	1

```
--Command to run: aaa_sq164 -CIP_LX_ORA_B3 -UNPR -Ppraa -lW:\triplea_core\l23.1.0_win_24May18\triplea_core\unit_buildlist.txt
```

```
#DECLARE @entity_sqlname_c sysname_t,
@parameter1 string4000_t,
@parameter2 string4000_t
```

```
#ASSIGN
```

```
@entity_sqlname_c = 'list_compo',
@parameter1 = " [list_id]=1228;[entity_dict_id]=[800];[rank_n]=[1];[object_id.code]=[T_AI_AC_PTF4];",
@parameter2 = " [list_id]=1228;[entity_dict_id]=[800];[rank_n]=[2];[object_id.code]=[T_AI_AC_PTF5];"
```

```
#EXEC collect_eval_entities @entity_sqlname_c=@entity_sqlname_c, @parameter1=@parameter1, @parameter2=@parameter2
go
```

```
#DECLARE @command_e_enum_t,
@user_id_id_t,
@output_mode enum_t,
@appl_session_code code_t
```

```
#ASSIGN @command_e=6,
```

```
@user_id = 2001,
@output_mode = 1,
```

```
@appl_session_code = @appl_session_code
```

```
#EXEC create_appl_session @session_cd_created = @appl_session_code output,
@on_channel_code = 'GUI',
@for_appl_user_code = 'NPR'
```

```
#EXEC eval_entity_with_collection @command_e=@command_e,@user_id=@user_id, @output_mode=@output_mode,@appl_session_code=@appl_session_code
Go
```

```
#EXEC collect_eval_entity @entity_sqlname_c='ext_operation',@parameter=""|id:=|50034|;|in_session_f|=|1|";
```

Executing collect eval entity with collection:

To debug from vidual studio:

aaa\_sql properties: -CINT\_E2E\_EBCY -UE2E\_PM -P123123 -SAAASERVHLAL

Provide the channel\_profile content to SQL, WUI

```
val@maa2devlx83.temenosgroup.com:/oams/int_e2e_ebcy/aaa/current> aaa SQL -UE2E_PM -P123123 -SINT_E2E_EBCY_51
```

```
#DECLARE @command_e enum_t,
@user_id_id_t,
@output_mode enum_t,
```

```

@appl_session_code code_t
#ASSIGN @command_e=19,@user_id=22007,@output_mode=1,@appl_session_code=@appl_session_code
#EXEC create_appl_session @session_cd_created = @appl_session_code_output,@on_channel_code='GUI',@for_appl_user_code='E2E_PM'
#EXEC eval_entity_with_collection @command_e=@command_e,@user_id=@user_id,@output_mode=@output_mode,@appl_session_code=@appl_session_code,@lang_dict_id=1,@fct_proc_name='PCK_MB_EUR_ORD_UPD',
@entity_sqlname_c='ext_operation',@parameter=""|cmd_e|=1||db_status_e|=0||order_validity_nat_e|=0||renewal_length_unit_e|=0||no_position_f|=0||executed_f|=0||lock_sub_pos_nat3_e|=0
||lock_sub_pos_nat_e|=0||revers_oper_nat_e|=0||check_strat_e|=0||adj_sub_pos_nat3_e|=0||default_fus_rule_e|=0||fx_rate_direction_f|=0||execut_oper_nat_e|=0||right_to_run_f|=0||confirm_f|=0||contract_length_unit_e|=0
||rule_applicability_e|=0||fusion_rule_e|=0||smart_rounding_f|=0||fact_sheet_e|=0||adj_nat_e|=0||parent_oper_nat_e|=0||fusion_e|=0||status_e|=0||op_action_e|=0||bid_type_e|=0
||execut_oper_status_e|=0||sub_pos_nat3_e|=0||check_parent_e|=0||order_price_nat_e|=0||payment_option_e|=0||lock_sub_pos_nat2_e|=0||mgt_payment_frequency_e|=0||nature_e|=0||order_nat_e|=0
||transaction_nature_e|=0||client_init_e|=0||cli_confirmation_f|=0||ex_coupon_f|=0||adj_sub_pos_nat2_e|=0||order_fee_e|=0||time_stamp|=0||auto_renewal_e|=0||sub_pos_nat_e|=0||price_calc_rule_e|=0
||adj_sub_pos_nat_e|=0||renewal_treatment_e|=0||safe_k_payment_frequency_e|=0||lock_nat_e|=0||in_session_f|=0||ref_nat_e|=0||target_nature_e|=0||@update_rule_e=0
go
=====
#DECLARE @command_e enum_t,
@user_id id_t,
@output_mode enum_t,
@appl_session_code code_t
#ASSIGN @command_e=19,@user_id=22007,@output_mode=1,@appl_session_code=@appl_session_code

#EXEC eval_entity_with_collection @command_e=@command_e,@user_id=@user_id,@output_mode=@output_mode,@appl_session_code=@appl_session_code,@lang_dict_id=1,@lang_dict_id=1,@user_id=22007,
@fct_proc_name='PCK_MB_EUR_ORD_UPD',@entity_sqlname_c='ext_operation',@parameter=""|cmd_e|=1||db_status_e|=0||sub_pos_nat2_e|=0||order_validity_nat_e|=0||renewal_length_unit_e|=0||no_position_f|=0||executed_f|=0
||selected_f|=0||lock_sub_pos_nat3_e|=0||lock_sub_pos_nat_e|=0||revers_oper_nat_e|=0||check_strat_e|=0||adj_sub_pos_nat3_e|=0||default_fus_rule_e|=0||fx_rate_direction_f|=0||execut_oper_nat_e|=0||right_to_run_f|=0
||confirm_f|=0||contract_length_unit_e|=0||rule_applicability_e|=0||fusion_rule_e|=0||smart_rounding_f|=0||fact_sheet_e|=0||adj_nat_e|=0||parent_oper_nat_e|=0||fusion_e|=0||status_e|=0||op_action_e|=0||bid_type_e|=0
||trailer_payment_frequency_e|=0||execut_oper_status_e|=0||sub_pos_nat3_e|=0||check_parent_e|=0||order_price_nat_e|=0||payment_option_e|=0||lock_sub_pos_nat2_e|=0||mgt_payment_frequency_e|=0||nature_e|=0||order_nat_e|=0
||transaction_nature_e|=0||client_init_e|=0||cli_confirmation_f|=0||ex_coupon_f|=0||adj_sub_pos_nat2_e|=0||order_fee_e|=0||time_stamp|=0||auto_renewal_e|=0||sub_pos_nat_e|=0||price_calc_rule_e|=0
||adj_sub_pos_nat_e|=0||renewal_treatment_e|=0||safe_k_payment_frequency_e|=0||lock_nat_e|=0||in_session_f|=0||ref_nat_e|=0||target_nature_e|=0||@update_rule_e=0
go
=====
Executing the eval_entity in aaa_sql

>/aaa SQL -Uaaaa -Paaaaaa -SCIP_LX_VM_ORA_DISP
#EXEC eval_entity @user_id=1,@command_e=4,...,@appl_session_code='ABNCBHBIN'
go
=====
>/aaa SQL -Uaaa -SCIP_LX_ORA_JB2_S1

#DECLARE @command_e enum_t,
@user_id id_t,
@output_mode enum_t,
@appl_session_code code_t

#ASSIGN @command_e=0,@user_id=4,@output_mode=1,@appl_session_code = @appl_session_code

#EXEC create_appl_session @session_cd_created = @appl_session_code_output,@on_channel_code = 'GUI',@for_appl_user_code = 'advisor'

#EXEC eval_entity @command_e=0,@entity_sqlname_c='manager',@parameter="",@lang_dict_id=1,@user_id=4,@appl_session_code=@appl_session_code

Go
param_name datatype value
report_name entity_sqlname label
----- ----- -----
delete_right_f NULL Delete Right 6 0
delete_right_f NULL Delete Right 0
=====

#DECLARE @command_e enum_t,
@user_id id_t,
@output_mode enum_t,
@appl_session_code code_t

#ASSIGN @command_e=0,@user_id=4,@output_mode=1,@appl_session_code = @appl_session_code

#EXEC create_appl_session @session_cd_created = @appl_session_code_output,@on_channel_code = 'GUI',@for_appl_user_code = 'advisor'
#EXEC eval_entity @command_e=3,@entity_sqlname_c='domain',@parameter=""|bench1_entity_e|=1||fund_split_level_n|=0||case_storage_f|=0||calc_till_d|=20231011000000||pps_currency_f|=1||event_oper_status_e|=80;
|rep_file_output_nature_e|=5||rep_overview_e|=1||event_pl_rule_e|=0||portfolio_dim_portfolio_id.code|=1_A_10_REBALASYNCN||rep_cashflow_e|=2||freq2_n|=1||summary_c|=Portfolio <None> / Instrument = <All> / 11/10/2023 / EUR /
Load Hierarchy = From Parent / Consolidation = Detailed||dynamic_weight_f|=0||fusion_rule_e|=0||language_dict_id|=1||rep_job_priority_n|=700||owner_business_entity_id|=2||dim_entity_dict_id|=120||dummy_min_status_e|=0;
|rep_operation_history_e|=1||min_trading_amt_f|=0||rep_anonymous_e|=0||has_prov_instr_f|=0||right_reason_e|=0||rep_stock_chart_e|=1||dummy_max_status_e|=0||multi_lv1_model_mgmt_f|=0||rep_fund_group_e|=0;
|risk_exp_f|=0||func_result_status_e|=0||zero_qty_f|=0||max_status_e|=90||gen_order_netting_e|=0||freq1_n|=1||session_nature_e|=0||load_non_discret_f|=1||port_quote_retr_f|=0||rep_orders_e|=1||port_cons_rule_e|=2;
|include_external_pos_f|=0||fus_sub_nat_f|=1||override_f|=0||portfolio_dimension_e|=1||qty_alloc_nat_e|=0||fund_split_rule_e|=0||freq2_unit_e|=4||session_in_error_f|=0||bench1_entity_dict_id|=800||conv_factor_n|=0.0000000000
||instrument_dimension_e|=0||rounding_method_e|=2||rep_valuation_e|=3||close_pos_f|=1||load_hier_hist_f|=0||check_strat_e|=0||pps_load_e|=0||order_switching_f|=0||purge_order_method_e|=0||calc_freq_d|=20231011000000
||event_flow_sub_nat_e|=0||return_fct_f|=0||event_flow_mask_f|=1||rep_toc_e|=1||right_to_run_f|=0||decision_state_n|=0||generate_case_f|=0||rep_notification_f|=1||event_flow_nat_e|=0||bench2_entity_dict_id|=800;
|mkt_sgt_rebalancing_f|=0||session_status_e|=0||rep_style_sheet_e|=0||rep_compliance_e|=2||non_enum_instr_f|=0||rep_currency_chart_e|=1||gen_global_order_e|=0||auth_online_periods_n|=120||rep_perf_contrib_level_e|=1;
|proposal_nature_e|=0||consider_wit_req_f|=0||load_global_order_e|=0||rep_style_trace_f|=0||tax_lot_e|=0||function_dict_id|=2||subgrid_f|=0||event_gen_nat_e|=0||cash_alloc_nat_e|=0||load_dim_port_hist_f|=0||rep_copy_n|=1
||case_generation_f|=0||order_status_e|=35||currency_id|=2||forward_renewal_f|=0||checked_portfolio_f|=0||rep_compliance2_e|=2||return_analysis_e|=0||check_trading_f|=1||calc_from_d|=20231011000000||rep_execution_e|=0
||update_secu_right_f|=0||rep_color_e|=1||list_hist_e|=0||rep_maturity_chart_e|=1||@appl_session_code=@appl_session_code
go
param_name datatype value
report_name entity_sqlname label
----- ----- -----
summary_c NULL Summary 43 Portfolio = <None> / Instrument = <All> / EUR / Load Hierarchy = No / Consolidation = Detailed
summary_c NULL Summary 0
portfolio_dim_portfolio_id
----- ----- -----
portfolio_dim_portfolio_id.code NULL portfolio Portfolio 7 NULL
portfolio_dim_portfolio_id.portfolio portfolio Portfolio 0 NULL
portfolio_dim_portfolio_id.name portfolio Portfolio 13 NULL
portfolio_dim_portfolio_id.currency_id portfolio Portfolio 7 NULL
portfolio_dim_portfolio_id.sys_currency_id portfolio Portfolio 7 NULL
portfolio_dim_portfolio_id.fusion_date_rule_e NULL portfolio Portfolio 4 NULL
portfolio_dim_portfolio_id.port_set_f portfolio Portfolio 6 NULL
portfolio_dim_portfolio_id.last_exercice_d NULL portfolio Portfolio 2 NULL
portfolio_dim_portfolio_id.perf_last_final_date NULL portfolio Portfolio 2 NULL
portfolio_dim_portfolio_id.ol1_fusion_date_rule_e NULL portfolio Portfolio 4 NULL
portfolio_dim_portfolio_id.perf_first_op_d NULL portfolio Portfolio 2 NULL
portfolio_dim_portfolio_id.perf_last_final_date NULL portfolio Portfolio 0
=====

summary_c NULL Summary 43 Portfolio = <None> / Instrument = <All> / EUR / Load Hierarchy = No / Consolidation = Detailed
summary_c NULL Summary 0
portfolio_dim_portfolio_id
----- ----- -----
portfolio_dim_portfolio_id.code NULL portfolio Portfolio 7 NULL
portfolio_dim_portfolio_id.portfolio portfolio Portfolio 0
portfolio_dim_portfolio_id.name portfolio Portfolio 4 NULL
portfolio_dim_portfolio_id.currency_id portfolio Portfolio 6 NULL
portfolio_dim_portfolio_id.sys_currency_id portfolio Portfolio 2 NULL
portfolio_dim_portfolio_id.fusion_date_rule_e NULL portfolio Portfolio 4 NULL
portfolio_dim_portfolio_id.port_set_f portfolio Portfolio 2 NULL
portfolio_dim_portfolio_id.last_exercice_d NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.perf_last_final_date NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.ol1_fusion_date_rule_e NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.perf_first_op_d NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.perf_last_final_date NULL portfolio Portfolio 0
=====


```

```

portfolio_dim_portfolio_id.update_right_f 6 NULL
NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.delete_right_f 6 NULL
NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.right_reason_e 4 NULL
NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.update_secu_right_f 6 NULL
NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.delete_secu_right_f 6 NULL
NULL portfolio Portfolio 0
portfolio_dim_portfolio_id.me_record_location_e 4 NULL
NULL portfolio Portfolio 0
rep_file_output_name 0
rep_file_output_name NULL Output Name

(2 rows affected)
param_name enum_name
enum_value sequence_no

(0 rows affected)
(return status = 0)

AAAEVALENTITYTRACE=1
AAAEVALENTITYTRACEFULL=1

2023/10/11 19:29:29:aaa :0x00000000000594b(cli):Thread 0x007f881805aca0: InputArgs: command_e=3, entity_sqlname_c=domain, parameter="|bench1_entity_e|=1|;fund_split_level_n|=0|;case_storage_f|=0|;calc_till_d|=20231011000000|;pps_currency_f|=1|;event_oper_status_e|=180|;rep_file_output_nature_e|=5|;rep_overview_e|=1|;event_pl_rule_e|=0|;portfolio_dim_portfolio_id.code|=:T_AI_10_REBALASYNCL|;rep_cashflow_e|=2|;freq2_n|=1|;summary_c|=Portfolio=Non-/|Instrument = <All>/ 11/10/2023 / EUR / Load Hierarchy = From Parent / Consolidation = Detailed|;dynamic_weight_f|=0|;fusion_rule_e|=1|;language_dict_id|=1|;rep_job_priority_n|=700|;owner_business_entity_id|=2|;dim_entity_dict_id|=120|;dummy_min_status_e|=0|;rep_operation_history_e|=1|;min_trading_amt_f|=0|;rep_anonymous_e|=0|;has_prov_instr_f|=0|;right_reason_e|=0|;rep_stock_chart_e|=1|;dummy_max_status_e|=0|;dim_lv_model_mgmt_f|=0|;rep_func_group_e|=0|;risk_exp_f|=0|;func_result_status_e|=0|;zero_qty_f|=0|;max_status_e|=90|;gen_order_netting_e|=0|;freq1_n|=1|;session_nature_e|=0|;load_non_discret_f|=1|;port_quote_retr_f|=0|;rep_orders_e|=1|;port_cons_rule_e|=2|;include_external_pos_f|=0|;fus_sub_nat_f|=1|;override_f|=0|;portfolio_dimension_e|=1|;qty_alloc_nat_e|=0|;fund_split_rule_e|=0|;freq2_unit_e|=4|;session_in_error_f|=0|;bench1_entity_dict_id|=800|;conv_factor_n|=0.00000000|;instrument_dimension_e|=0|;rounding_method_e|=2|;rep_valuation_e|=3|;close_pos_f|=1|;load_hier_hist_f|=0|;check_strat_e|=0|;pps_load_e|=0|;order_switching_f|=0|;rep_perf_contrb_level_e|=1|;calc_free_d|=20231011000000|;event_flow_subнат_e|=0|;return_ft_f|=0|;event_flow_mask|=1|;rep_toe_e|=1|;right_to_run_f|=0|;decision_state_n|=0|;generate_case_f|=0|;rep_notification_f|=1|;event_flow_nat_e|=0|;bench2_entity_dict_id|=800|;mkt_sgt_rebalancing_f|=0|;session_status_e|=0|;rep_style_sheet_e|=0|;rep_compliance_e|=2|;non_enum_instr_f|=0|;rep_currency_chart_e|=1|;gen_global_order_e|=0|;auth_online_periods_n|=120|;rep_perf_contrb_level_e|=1|;proposal_status_e|=0|;consider_wit_req_f|=0|;load_global_order_e|=0|;rep_style_trace_f|=0|;tax_lot_e|=0|;function_dict_id|=2|;subgrid_f|=0|;event_gen_nat_e|=0|;cash_alloc_nat_e|=0|;load_dim_port_hist_f|=0|;rep_copy_n|=1|;case_generation_f|=0|;order_status_e|=35|;currency_id_d|=2|;forward_renewal_f|=0|;checked_portfolio_f|=0|;rep_compliance2_e|=2|;return_analysis_e|=0|;check_trading_f|=1|;calc_from_d|=20231011000000|;rep_execution_e|=0|;update_secu_right_f|=0|;rep_color_e|=1|;list_hist_e|=0|;rep_maturity_chart_e|=1|;screen_dict_id=NUL, lang_dict_id=NUL, appl_session_code=18SDDEE8FDK5WVK1B4USSM3C5L98S1XJM3ACISGPZ4R4P8

2023/10/11 19:29:29:aaa :0x00000000000594b(cli):Thread 0x007f881805aca0: InputRec: id=NULL^ currency_id=2^ dim_port_dict_id=NULL^ dim_instr_dict_id=NULL^ dim_strat_dict_id=NULL^ user_id=NULL^ language_dict_id=1^ function_dict_id=2^ scenario_id=NULL^ quote_val_rule_id=NULL^ exch_val_rule_id=NULL^ port_object_id=NULL^ instr_object_id=NULL^ strat_object_id=NULL^ report_id=NULL^ acc_period_id=NULL^ func_result_id=NULL^ grid_id=NULL^ acc_plan_id=NULL^ book_portfolio_id=NULL^ cons_portfolio_id=NULL^ port_pos_type_id=NULL^ market_segment_id=NULL^ cash_currency_id=NULL^ buy_order_rule_id=NULL^ sell_order_rule_id=NULL^ last_user_id=NULL^ buy_port_classif_id=NULL^ sell_port_classif_id=NULL^ last_modif_f=1^ fusion_date_rule_e=1^ min_status_e=90^ max_status_e=90^ fund_split_rule_e=0^ zero_qty_f=0^ risk_exp_f=0^ option_risk_rule_e=0^ underlying_f=0^ port_cons_rule_e=2^ status_fus_f=0^ close_pos_f=1^ pos_logical_e=1^ from_date_comp_rule_c=NULL^ strat_date_comp_rule_c=NULL^ freq_date_comp_rule_c=NULL^ freq1_n=1^ freq1_unit_e=0^ freq2_n=1^ freq2_unit_e=4^ def_curr_f=0^ def_lang_f=0^ default_f=0^ port_quote_retr_f=0^ def_fusion_date_rule_f=0^ debt_f=0^ load_pos_f=1^ fus_sub_nat_f=1^ strat_link_nat_e=0^ force_link_f=0^ checked_portfolio_f=0^ min_link_priority_n=NULL^ max_link_priority_n=NULL^ conv_factor_n=0^ pos_val_rule_e=0^ event_oper_status_e=80^ event_gen_nat_e=0^ event_flow_nat_e=0^ event_flow_subнат_e=0^ event_flow_mask_f=1^ from acc_number=NULL^ till_acc_number=NULL^ closing_nat_e=1^ strat_detail_dat_e=0^ comp_data_e=0^ func_result_code=NULL^ disp_result_f=0^ ref_date_comp_rule_c=NULL^ valo_seq_no=NUL^ hist_list_e=0^ event_pl_rule_e=0^ ret_det_level_e=0^ subgrid_f=0^ pps_load_e=0^ pps_type_f=1^ pps_cons_pf_f=1^ pps_currency_f=1^ load_hierarchy_f=0^ order_nat_e=0^ gen_global_order_e=0^ order_alloc_nat_e=0^ obj_weight_cont_p=NULL^ obj_weight_cont_marg_p=NULL^ qty_alloc_nat_e=0^ cash_alloc_nat_e=0^ cash_obj_weight_p=NULL^ check_strat_e=0^ order_status_e=35^ event_date_rule_e=1^ op_search_c=NUL^ extop_search_c=NUL^ hist_list_f=0^ min_order_amount_m=NULL^ min_order_amnt_curr_id=NULL^ mkt_sgt_rebalancing_f=0^ ext_list_definition_t=NUL^ port_load_global_order_e=0^ calc_from_d=11/10/2023^ calc_strat_d=NULL^ func_result_status_e=0^ comp_level_e=0^ derivation_e=1^ dynamic_weight_f=0^ const_nature_e=0^ ext_pos_list_id=NUL^ load_non_discret_f=1^ check_trading_f=1^ execution_details_f=0^ rounding_method_e=2^ dim_entity_dict_id=120^ bench1_entity_dict_id=800^ bench2_entity_dict_id=800^ bench2_object_id=NULL^ bench3_entity_dict_id=NULL^ risk_free_instr_id=NULL^ return_analysis_e=0^ perf_attrib_method_e=0^ perf_attrib_freq_e=0^ psp_position_data_id=NULL^ pl_method_e=2023/10/11 19:29:30:aaa :0x00000000000594b(cli):Thread 0x007f881805aca0: OutputRec: id=NULL^ currency_id=2^ dim_port_dict_id=NULL^ dim_instr_dict_id=NULL^ dim_strat_dict_id=NULL^ user_id=NULL^ language_dict_id=1^ function_dict_id=2^ scenario_id=NULL^ quote_val_rule_id=NULL^ exch_val_rule_id=NULL^ port_object_id=NULL^ instr_object_id=NULL^ strat_object_id=NULL^ report_id=NULL^ acc_period_id=NULL^ func_result_id=NULL^ grid_id=NULL^ acc_plan_id=NULL^ book_portfolio_id=NULL^ cons_portfolio_id=NULL^ port_pos_type_id=NULL^ market_segment_id=NULL^ cash_currency_id=NULL^ buy_order_rule_id=NULL^ sell_order_rule_id=NULL^ last_user_id=NULL^ buy_port_classif_id=NULL^ sell_port_classif_id=NULL^ last_modif_f=1^ fusion_date_rule_e=1^ min_status_e=90^ max_status_e=90^ fund_split_rule_e=0^ zero_qty_f=0^ risk_exp_f=0^ option_risk_rule_e=0^ underlying_f=0^ port_cons_rule_e=2^ status_fus_f=0^ close_pos_f=1^ pos_logical_e=1^ from_date_comp_rule_c=NULL^ strat_date_comp_rule_c=NULL^ freq_date_comp_rule_c=NULL^ freq1_n=1^ freq1_unit_e=0^ freq2_n=1^ freq2_unit_e=4^ def_curr_f=0^ def_lang_f=0^ default_f=0^ port_quote_retr_f=0^ def_fusion_date_rule_f=0^ debt_f=0^ load_pos_f=1^ fus_sub_nat_f=1^ strat_link_nat_e=0^ force_link_f=0^ checked_portfolio_f=0^ min_link_priority_n=NULL^ max_link_priority_n=NULL^ conv_factor_n=0^ pos_val_rule_e=0^ event_oper_status_e=80^ event_gen_nat_e=0^ event_flow_nat_e=0^ event_flow_subнат_e=0^ event_flow_mask_f=1^ from acc_number=NULL^ till_acc_number=NULL^ closing_nat_e=1^ strat_detail_dat_e=0^ comp_data_e=0^ func_result_code=NULL^ disp_result_f=0^ ref_date_comp_rule_c=NULL^ valo_seq_no=NUL^ hist_list_e=0^ event_pl_rule_e=0^ ret_det_level_e=0^ subgrid_f=0^ pps_load_e=0^ pps_type_f=1^ pps_cons_pf_f=1^ pps_currency_f=1^ load_hierarchy_f=0^ order_nat_e=0^ gen_global_order_e=0^ order_alloc_nat_e=0^ obj_weight_cont_p=NULL^ obj_weight_cont_marg_p=NULL^ qty_alloc_nat_e=0^ cash_alloc_nat_e=0^ cash_obj_weight_p=NULL^ check_strat_e=0^ order_status_e=35^ event_date_rule_e=1^ op_search_c=NUL^ extop_search_c=NUL^ hist_list_f=0^ min_order_amount_m=NULL^ min_order_amnt_curr_id=NULL^ mkt_sgt_rebalancing_f=0^ ext_list_definition_t=NUL^ port_load_global_order_e=0^ calc_from_d=11/10/2023^ calc_strat_d=NULL^ func_result_status_e=0^ comp_level_e=0^ derivation_e=1^ dynamic_weight_f=0^ const_nature_e=0^ ext_pos_list_id=NUL^ load_non_discret_f=1^ check_trading_f=1^ execution_details_f=0^ rounding_method_e=2^ dim_entity_dict_id=120^ bench1_entity_dict_id=800^ bench2_entity_dict_id=800^ bench2_object_id=NULL^ bench3_entity_dict_id=NULL^ risk_free_instr_id=NULL^ return_analysis_e=0^ perf_attrib_method_e=0^ perf_attrib_freq_e=0^ psp_position_data_id=NULL^ pl_method_e=2023/10/11 19:29:30:aaa :0x00000000000594b(cli):Thread 0x007f881805aca0: OutputArgs: summary_c(datatype:43)=""", portfolio_dim_portfolio_id(datatype:7)="NULL", rep_file_output_name(datatype:13)="portfolio_dim_portfolio_id.me_record_location_e"

=====

Make sure the field user_id attribute in the message aligns with the logged in user id.

set serveroutput on size 32000;

declare
 v_app_session_code varchar2(60);
 v_connected_business_entity_id number(14);
begin
 create_appl_session(v_app_session_code, 'IMPORT', 'd_tap_oraaaa', NULL, NULL, NULL, 'SGP');
 DBMS_OUTPUT.PUT_LINE(v_app_session_code);
 set_current_appl_session(v_app_session_code);
 select connected_business_entity_id into v_connected_business_entity_id from appl_session_vw where code = v_app_session_code;
 DBMS_OUTPUT.PUT_LINE('Business Entity: ' || TO_CHAR(v_connected_business_entity_id));
end;
end;

select cast(SYS_CONTEXT('TASC_CONTEXT', 'connected_business_entity_id') as number(14,0)), 1 from dual;

From <http://wiki.temenosgroup.com/display/DEVWIKI/Oracle++Application+Session+Tips>

sql -Usd_jbaaa -Psd_jbaasd_jbaaa <<-EOT
declare @session_cd_cre varchar(60)
exec dbo.create_appl_session @session_cd_cre output, SQL, null, null, null, null, null, null, null, null
go
exec exec_fin_analysis_all_domain
@output_type e=1,
@dim_entity='one',
@dim_port='portfolio',
@port_object='FMT_PTF1',
@calc_from_d='01-31-2019',
@calc_till_d='01-31-2019',
@calc_ref_d='01-31-2019',
@calc_strat_d='01-31-2019',
...
@report_server='SD_1806_JB_S1',
@function='valc',
@auth_online_periods_n=999
go
declare @session_cd_cre varchar(60)
exec dbo.del_current_appl_session @session_cd_cre output, 1
go

```

## CURL Usage

1. curl [http://hlahlahla@lauvdi063:25015/rpc/get\\_version](http://hlahlahla@lauvdi063:25015/rpc/get_version)
2. curl <http://username:password@api.somesite.com/test/blah?something=123>
3. curl -X GET/POST/PUT <URL> -u username:password
4. curl <https://example.com/?param=ParameterValue> -u USERNAME:PASSWORD

```

1. DECLARE
 P_NATURE_E NUMBER;
BEGIN
 P_NATURE_E:=0;
 AAAMAINDB_SEL_SH_SERVER_CONNECT_BY_NAT(
 P_NATURE_E=>P_NATURE_E
);
END;

```

```
1. select ao.STATUS, ao.* from SYS.ALL_OBJECTS ao where ao.object_NAME = 'SEL_SH_SERVER_CONNECT_BY_NAT';
 select * from dba_sys_privs where grantee = 'TRIPLEA_OWNER';
 select * from role_tab_privs where role = 'TRIPLEA_OWNER';
 select USERNAME,OSUSER,PROCESS,MACHINE,PROGRAM,MODULE,LOGON_TIME
 from gv$session
 where PROGRAM like 'aaa_srv%'

2. select * from dba_sys_privs where grantee = 'TRIPLEA_OWNER';
 select * from role_tab_privs where role = 'TRIPLEA_OWNER';
 GRANT SELECT ON SYS.GV$_SESSION TO aa sys WITH GRANT OPTION;
 GRANT SELECT ON SYS.V_$TRANSACTION TO aa sys WITH GRANT OPTION;
 select USERNAME,OSUSER,PROCESS,MACHINE,PROGRAM,MODULE,LOGON_TIME from gv$session where PROGRAM like 'aaa_srv%'
```

1 - connected with sys user :  
GRANT SELECT ON SYS.GV\$\_SESSION TO aaays WITH GRANT OPTION;  
GRANT SELECT ON SYS.V\_\$TRANSACTION TO aaays WITH GRANT OPTION;

```
2 - Connected with aaasys :
grant select on GV$SESSION to TRIPLEA_OWNER ;
grant select on V$TRANSACTION to TRIPLEA_OWNER ;
```

3 - Connected with user having TRIPLEA\_OWNER role :  
select USERNAME,OSUSER,PROCESS,MACHINE,PROGRAM,MODULE,LOGON\_TIME  
from gv\$Session  
where PROGRAM like '%PL/SQL%'

- where PROGRAM like 'aaa\_srv%
- 4. select USERNAME,OSUSER,PROCESS,MACHINE,PROGRAM,MODULE,LOGON\_TIME  
from gv\$Session  
where PROGRAM like 'aaa\_srv%'
- 5. select vs.inst\_id, vs.module, vs.process, count(vs.module) from gv\$session vs  
where vs.schemaname = 'AAAAMAINDB'  
group by vs.module, vs.inst\_id, vs.process  
order by vs.module, vs.inst\_id
- 6. Select \* from v\$Session where status='INACTIVE' and username not in ('SYS','AAAASYS')

## Steps to execute TPC from sybase ISQL session

```

set session_param dmy
declare @session_cd_cre varchar(60) exec create_appl_session @session_cd_cre output,'SQL' select @session_cd_cre as sess --815ddc96-9f81-4352-ae00-76947dd5-8c99-4dac-997c
set_current_appl_session "815ddc96-9f81-4352-ae00-76947dd5-8c99-4dac-997c"
declare @data_set_id int exec get_next_report_dataset_id @data_set_id output select @data_set_id as dataset_id --4000000029

#EXEC exec_exec_fin_analysis_all_domain @id = NULL,@currency_id = 2,@dim_port_dict_id = 800,@function='valo',@port_object_id = 4000001259,
,@min_status_e = 90,@max_status_e = 90,@fund_split_rule_e = 2,@port_cons_rule_e = 2
,@default_f = 0
,@disp_result_f = 1
,@calc_from_d = '27/05/2020'
,@calc_strat_d='27/05/2020'
,@comp_level_e = 0
,@calc_till_d='27/05/2020'
,@calc_freq_d='27/05/2020'
,@calc_ref_d='27/05/2020'
,@format = 'REP_STD_VALO'
,@data_set_id = 4000000029
,@output_type_e = 3
--,@appl_session_code = '815ddc96-9f81-4352-ae00-76947dd5-8c99-4dac-997c'
,@report_server='SD SYB 25 4 S1'

```

1. Connect to iSQL with hla/hlahla
  2. Pick up the fin\_analysis\_by\_id from sqldump of srv with starting from SQL. Execute with below syntax in the iSQL console

No need to prefix AAASERVHLAL & replace the session id.

=====  
Please let me know if you have any questions.

```
Content of proc_strat_link.sql as below
/tap/CLP_LX_VM/aaahome->cat proc_strat_link.sql
alter session set NLS_DATE_FORMAT = 'DD-MM-YYYY HH24:MI:SS';
go
PRINT PROC1
begin init_sel_strategy_link_by_id(800 ,18001 ,NULL ,NULL ,NULL ,0 ,NULL ,NULL ,NULL ,NULL ,11-07-2021 00:00:00' ,NULL ,0 ,NULL); end;
go
PRINT PROC2
begin sel_sh_strategy_link_by_id(800 ,18001 ,NULL ,0 ,0 ,1 ,0 ,11-07-2021 00:00:00' ,NULL ,NULL ,NULL ,1 ,NULL); end;
go
PRINT PROC3
begin sel_sh_strategy_link_by_pid(800 ,18001 ,NULL ,0 ,0 ,1 ,0 ,11-07-2021 00:00:00' ,NULL ,NULL ,NULL ,1 ,NULL); end;
```

-----

```

#DECLARE @code code_t
#ASSIGN @code='USD'
#EXEC GET_ALL_CURRENCY_BY_CD @code
Go

→ In aaa.sql

[2021/07/19 11:58:38:454012] ORAStatementExecute - ct_command(aaamaindb,aaa,1,1,0) SUCCEED Connect=1 CsCmd=0x0000006459170 Mode=LANG Thread=pid#7620-tid#7620 Request=" declare v_code varchar2(255 char); begin select
 'USD' into v_code from dual; GET_ALL_CURRENCY_BY_CD(v_code); end; " ... (ThreadRequest:aaa_sql-pid#7620-tid#7620)
=====
sqlplus D_LAB_39AAA/D_LAB_39AAAD_LAB_39AAA@D_LAB_39

alter session set current_schema=aaamaindb;

set serveroutput on size 30000;
SET LINESIZE 32767;
set pagesize 32767;

declare
 appl_session varchar2(60);
 nb_ptf number;

 connected_business_entity_id_as_str varchar2(60);
 data_profile_id_as_str varchar2(60);

begin
 create_appl_session (appl_session , 'SQL' , 'D_LAB_39AAA' ,NULL ,NULL ,NULL , 'SGP' /* business entity */ ,4567 /*pid*/ ,NULL);
 dbms_output.put_line('session code is ' || appl_session);
 get_all_appl_session_by_pk (appl_session);
 set_current_appl_session(appl_session);

 select SYS_CONTEXT('TASC_CONTEXT', 'connected_business_entity_id') , SYS_CONTEXT('TASC_CONTEXT', 'data_profile_id')
 into connected_business_entity_id_as_str, data_profile_id_as_str
 from dual;

 dbms_output.put_line('connected_business_entity_id = ' || connected_business_entity_id_as_str);
 dbms_output.put_line('data_profile_id = ' || data_profile_id_as_str);

 select count(*)
 into nb_ptf
 from aaamaindb.portfolio_vw;
 dbms_output.put_line('nb ptf ' || TO_CHAR(nb_ptf));

end;
/
=====
set serveroutput on size 30000;
SET LINESIZE 32767;
set pagesize 32767;

declare
 appl_session varchar2(60);
 nb_ptf number;
 data_profile_id_as_str varchar2(60);
begin
 create_appl_session (appl_session , 'GUI' , 'bla' ,NULL ,NULL ,NULL /* business entity */ ,NULL /*pid*/ ,26975);
 dbms_output.put_line('session code is ' || appl_session);
 get_all_appl_session_by_pk (appl_session);
 set_current_appl_session(appl_session);
 SELECT SYS_CONTEXT('TASC_CONTEXT','data_profile_id') into data_profile_id_as_str from dual;
 dbms_output.put_line('data_profile_id = ' || data_profile_id_as_str);
 select count(*)
 into nb_ptf
 from aaamaindb.portfolio_vw;
 dbms_output.put_line('nb ptf ' || TO_CHAR(nb_ptf));
end;
/
=====
alter session set NLS_DATE_FORMAT = 'DD-MM-YYYY HH24:MI:SS';
go

begin init_sel_strategy_link_by_id (800 ,18001 ,NULL ,NULL ,NULL ,0 ,NULL ,NULL ,NULL , '21-07-2021 00:00:00' ,NULL ,0 ,NULL);end;
go

#DECLARE
@dim_port_dict_id dict_t
@port_object_id id_t
@dim_strat_dict_id dict_t
@link_nat_e enum_t
@all_history_f flag_t
@current_f flag_t
@physical_link_f flag_t
@begin_d date_t
@end_d date_t
@min_link_priority_n tinyint_t
@max_link_priority_n tinyint_t
@admin_f flag_t
@data_profile_id id_t= NULL
#ASSIGN @dim_port_dict_id=400
#ASSIGN @port_object_id=18001
#ASSIGN @dim_strat_dict_id=NULL
#ASSIGN @link_nat_e=0
#ASSIGN @all_history_f=0
#ASSIGN @current_f=1
#ASSIGN @physical_link_f=1
#ASSIGN @begin_d='21-07-2021 00:00:00'
#ASSIGN @end_d=NULL
#ASSIGN @min_link_priority_n=NULL
#ASSIGN @max_link_priority_n=NULL
#ASSIGN @admin_f=1

```

```

#ASSIGN @data_profile_id=NULL
#EKC sel_sh_strategy_link_by_id @dim_port_dict_id, @port_object_id, @dim_strat_dict_id, @link_nat_e, @all_history_f, @current_f, @physical_link_f, @begin_d,
@end_d, @min_link_priority_n, @max_link_priority_n, @admin_f, @data_profile_id
go
=====
select * from v$sql where sql_fulltext like '%sel_sh_strategy_link_by_id%';

declare
v_dim_port_dict_id number(14,0);
v_port_object_id number(14,0);
v_dim_strat_dict_id number(14,0);
v_link_nat_e number(3,0);
v_all_history_f number(3,0);
v_current_f number(3,0);
v_physical_link_f number(3,0);
v_begin_d date;
v_end_d date;
v_min_link_priority_n number(3,0);
v_max_link_priority_n number(3,0);
v_admin_f number(3,0);
v_data_profile_id number(14,0) := NULL;
v_data_profile_id_user number(14,0);

begin
select cast(SYS_CONTEXT('TASC_CONTEXT','data_profile_id_user') as number(14,0)) into v_data_profile_id_user from dual;
select coalesce(cast(SYS_CONTEXT('TASC_CONTEXT','data_profile_id') as number(14,0)), v_data_profile_id_user) into v_data_profile_id from dual;
select 400 into v_dim_port_dict_id from dual;
select 18001 into v_port_object_id from dual;
select NULL into v_dim_strat_dict_id from dual;
select 0 into v_link_nat_e from dual;
select 0 into v_all_history_f from dual;
select 1 into v_current_f from dual;
select 1 into v_physical_link_f from dual;
select '21-07-2021 00:00:00' into v_begin_d from dual;
select NULL into v_end_d from dual;
select NULL into v_min_link_priority_n from dual;
select NULL into v_max_link_priority_n from dual;
select 1 into v_admin_f from dual;
select NULL into v_data_profile_id from dual;
sel_sh_strategy_link_by_id(
 v_dim_port_dict_id
 ,v_port_object_id
 ,v_dim_strat_dict_id
 ,v_link_nat_e
 ,v_all_history_f
 ,v_current_f
 ,v_physical_link_f
 ,v_begin_d
 ,v_end_d
 ,v_min_link_priority_n
 ,v_max_link_priority_n
 ,v_admin_f
 ,v_data_profile_id);
end;
=====
```

Using bind variables:

Step 1: Use the aaa user to open the sql-developer.

```

exec set_current_appl_session('S1YM3CHOANO10FKUBU7IS6XQM63DYB2HQE44BO044PEL9W');

alter session set NLS_DATE_FORMAT = 'DD-MM-YYYY HH24:MI:SS';

exec init_sel_strategy_link_by_id(800,9001, NULL, NULL, NULL, 0, NULL, NULL, '26-07-2021 00:00:00', NULL, 0, NULL);
```

```

declare
plsql_block varchar2(500):= '';
v_dim_port_dict_id number(14,0) := 800;
v_dim_strat_dict_id number(14,0) := NULL;
v_port_object_id number(14,0) := 9001;
v_link_nat_e number(3,0) := 0;
v_all_history_f number(3,0) := 0;
v_current_f number(3,0) := 1;
v_physical_link_f number(3,0) := 0;
v_begin_d_date := '26-07-2021 00:00:00';
v_end_d_date := NULL;
v_min_link_priority_n number(3,0) := NULL;
v_max_link_priority_n number(3,0) := NULL;
v_admin_f number(3,0) := 1;
v_data_profile_id number(14,0) := NULL;
v_data_profile_id_user number(14,0) := NULL;
```

begin
plsql\_block := 'begin sel\_sh\_strategy\_link\_by\_id(:1,:2,:3,:4,:5,:6,:7,:8,:9,:10,:11,:12,:13); end';

```

EXECUTE IMMEDIATE plsql_block USING
v_dim_port_dict_id, v_port_object_id, v_dim_strat_dict_id, v_link_nat_e, v_all_history_f, v_current_f, v_physical_link_f, v_begin_d, v_end_d, v_min_link_priority_n, v_max_link_priority_n, v_admin_f, v_data_profile_id;
end;
/
```

=====  
ResultSet #1

```

ID STRATEGY_ID LINKED_ENTITY_DICT_ID OBJECT_ID LINK_NAT_E BEGIN_D END_D PRIORITY_N FROM_ENTITY_DICT_ID FROM_OBJECT_ID TO_ENTITY_DICT_ID TO_OBJECT_ID RANK_N STRATEGY_CODE STRATEGY_NAT_E
OBJECT_CODE DIRECT_F ENUM_F PORTFOLIO_ID PORTFOLIO_CODE LIST_ID LIST_CODE PARENT_STRATEGY_ID DIM_GRID_DICT_ID GRID_OBJECT_ID PARENT_GRID_ID MARKET_SEGMENT_ID FROM_ENTITY_CODE
FROM_OBJECT_CODE TO_ENTITY_CODE TO_OBJECT_CODE DATA_SECU_PROF_ID UPDATE_RIGHT_F DELETE_RIGHT_F RIGHT_REASON_E ME_RECORD_LOCATION_E UPDATE_SECU_RIGHT_F DELETE_SECU_RIGHT_F
```

```

4020 1001 800 9001 1 23-07-2021 00:00:00 31-12-9999 00:00:00 800 9001 500 1001 4 HLA-PTF-01 1 0 9001 HLA-PTF-01
HLA-PTF-01 CS_GLEX 2 1 1 4 2 1 1
```

ResultSet #2

```

ID STRATEGY_ID LINKED_ENTITY_DICT_ID OBJECT_ID LINK_NAT_E BEGIN_D END_D PRIORITY_N FROM_ENTITY_DICT_ID FROM_OBJECT_ID TO_ENTITY_DICT_ID TO_OBJECT_ID RANK_N STRATEGY_CODE STRATEGY_NAT_E
OBJECT_CODE DIRECT_F ENUM_F PORTFOLIO_ID PORTFOLIO_CODE LIST_ID LIST_CODE PARENT_STRATEGY_ID DIM_GRID_DICT_ID GRID_OBJECT_ID PARENT_GRID_ID MARKET_SEGMENT_ID FROM_ENTITY_CODE
FROM_OBJECT_CODE TO_ENTITY_CODE TO_OBJECT_CODE DATA_SECU_PROF_ID UPDATE_RIGHT_F DELETE_RIGHT_F RIGHT_REASON_E ME_RECORD_LOCATION_E UPDATE_SECU_RIGHT_F DELETE_SECU_RIGHT_F
```

## ResultSet #4

no rows selected  
ResultSet #5

no rows selected

Calling directly from aaa sql

```
aaa sql -Uaaa -Paaaaaaaa -cGB0010001
```

```
begin init sel strategy link by id(800, 9001, NULL, NULL, NULL, 0, NULL, NULL, NULL, '26-07-2021 00:00:00', NULL, 0, NULL); end
```

```
begin sel_sh_strategy_link_by_id(800 ,9001 ,NULL ,0 ,0 ,1 ,0 ,'26-07-2021 00:00:00' ,NULL ,NULL ,NULL ,1 ,NULL); end;
```

```
/oams/sd_e2e_env/aaa/current->./aaa sql -Uaaa -SSD_E2E_ENV_S1 -cGB0010001
Alter session set nls_date_format='YYYY-MM-DD HH24:MI:SS'
Go
```

#EXEC fin\_sel\_strat\_link\_by\_id

```
["fin_sel_strat_link_by_id": {"dim_port_dict_id": "400", "port_object_id": "11001", "dim_strat_dict_id": null, "strat_object_id": null, "priority": null, "strat_link_n": null, "expand_strategy_e": "0", "single_period_f": "0", "appl_session_code": "PT9MT8KX20Y84SCNORRHH"}, Go
```

```
select * from v$instance;
=====
export AAAJSONLOGFILE=json.log

[{"fin_analysis_by_id": {"id": null, "currency_id": "2", "dim_port_dict_id": "800", "dim_instr_dict_id": null, "dim_strat_dict_id": null, "user_id": "1", "language_dict_id": "1", "function_dict_id": "2", "scenario_id": null, "quote_val_rule_id": null, "exch_val_rule_id": null, "port_object_id": "4538", "instr_object_id": null, "strat_object_id": null, "report_id": null, "acc_peried_id": null, "func_set_id": null, "grid_id": null, "acc_plan_id": null, "book_portfolio_id": null, "cons_portfolio_id": null, "port_pos_type_id": null, "market_segment_id": null, "cash_currency_id": null, "buy_order_rule_id": null, "sell_order_rule_id": null, "last_user_id": null, "buy_port_classif_id": null, "sell_port_classif_id": null, "last_modif_id": null, "fusion_date_rule_e": "0", "fusion_rule_e": "0", "min_status_e": "0", "max_status_e": "90", "find_split_rule_e": "1", "zero_qty_f": "1", "risk_exp_f": "0", "option_risk_rule_e": "0", "underly_f": "0", "port_cons_rule_e": "2", "status_pos_f": "0", "close_pos_f": "0", "pos_logical_e": "1", "from_date_comp_rule_c": "null", "till_date_comp_rule_c": "null", "strat_date_comp_rule_c": "null", "freq_date_comp_rule_c": "null", "freq1": "n_1", "freq1_unit_e": "0", "freq2_n_1": "freq2", "unit_e": "0", "def_curr_f": "0", "def_lang_f": "0", "default_f": "0", "def_fusion_date_rule_f": "1", "debt_f": "0", "load_pos_f": "1", "fus_sub Nat_f": "0", "force_link_f": "0", "checked_portfolio_f": "0", "min_link_priority_n": "null", "max_link_priority_n": "null", "conv_factor_n": "0.0000000000", "pos_val_rule_e": "0", "event_oper_status_e": "80", "event_gen_nat_e": "2", "event_flow_nat_e": "0", "event_flow_sub_nat_e": "0", "event_flow_mask": "1", "from_acc_number": null, "till_acc_number": null, "closing_nat_e": "1", "strat_detail_nat_e": "0", "comp_date_e": "0", "func_result_code": null, "disp_result_f": "1", "ref_date_comp_rule_c": "null", "valo_seq_n": "null", "hist_list_f": "0", "min_ordr_amount_m": "null", "min_order_amnt": "null", "mkt_sgt_rebalancing_f": "0", "instr_list_definition_t": "null", "port_list_definition_t": "null", "load_global_order_e": "0", "calc_from_d": "2024-01-08T00:00:00", "calc_d": "2024-01-08T00:00:00", "func_status_e": "0", "comp_level_e": "0", "derivation_e": "1", "dynamic_weight_f": "0", "ext_pos_list_id": "null", "load_non_discret_f": "0", "check_trading_f": "0", "execution_details_f": "0", "rounding_method_e": "2", "dim_entity_dict_id": "120", "bench1_entity_dict_id": "800", "bench2_entity_dict_id": "800", "bench3_entity_dict_id": "800", "bench": "3", "objc_id": "null", "risk_free_instr_id": "null", "return_analysis_e": "0", "perf_attri_method_e": "0", "perf_attri_freq_e": "0", "psp_position_data_id": "null", "pl_method_e": "0", "auth_online_periods_n": "9999", "unmatched_exec_search_c": "null", "purge_order_method_e": "0", "file_name_c": "null", "cash_flow_mgt_e": "0", "dummy_max_status_e": "0", "dummy_max_status_e": "0", "func_res_list_def_f": "null", "dim_func_result_id": "null", 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"child_session_id": "null", "expansion_d": "null", "rep_ptcc_e": "1", "rep_ptcc_chart_e": "1", "rep_perf_attrib_char_e": "0", "rep_perf_contrib_level_e": "1", "order_grouping_f": "1", "rep_storage_e": "1", "rep_execution_e": "0", "query_definition": "null", "compilation_mode_e": "0", "min_trading_amt_f": "0", "risk_rule_id": "null", "instr_query_definition_t": "null", "dim_mode_e": "0", "tax_lot_e": "0", "plan_definition_id": "null", "order_switching_f": "0", "load_hier_hist_f": "0", "gen_order_netting_e": "0", "multi_lv_model_mgmt_f": "0", "number_of_orders_n": "null", "order_netting_fct_dict_id": "null", "repal_method_e": "0", "quasi_asl_cash_e": "0", "order_alloc_rule_e": "0", "order_buy_alloc_rule_e": "0", "cash_realign_method_e": "0", "smart_rounding_f": "0", "smart_rounding_rule_id": "null", "hier_grouping_fct_dict_id": "null", "order_status_fct_dict_id": "95", "compliance_method_e": "0", "load_receive_f": "0", "check_hiccons_f": "0", "hedging_type_e": "0", "over hedge_f": "0", "in
```

```
=====
>/aaa SQL -Uaaa
use aaamaindb
go
use dateformat dmy
go
EXEC exec_fin_analysis_all_domain @currency_id = 2,@dim_port_dict_id = 800,@function='val0',@port_object_id = 100009-01
@min_status_e = 90,@max_status_e = 90,@fund_split_rule_e = 2,@port_cons_rule_e = 2
@default_f = 0
@disp_result_f = 1
@calc_from_d = '27/05/2020'
@calc_strat_d= '27/05/2020'
@comp_level_e = 0
```

```

,@@calc_till_d='27/05/2020'
,@@calc_freq_d='27/05/2020'
,@@calc_ref_d='27/05/2020'
,@format = 'REP_STD_VALO'
,@data_set_id = 40000000029
,@output_type_e = 2
,@report_server='CIP_LX_ORA_JB3_S1'
go
DataSet Number FmElt Number Function Result Id

```

```
1 149 NULL
```

(1 row affected)

_FmtId	_FmtElRank	_DataSetIndex	_ColIndex	_DspFmt	_SqlName	_HierNestEn	_DataTpDictId
498	10	1	1	NULL	PORTFOLIO_ID	0	8 Portfolio identifier
498	20	1	2	2	ACCT_FILTER	0	7 Positions in Accounting View
498	30	1	3	2	RISK_FILTER	0	7 Positions in Risk View
498	40	1	4	NULL	FUND_SPLIT_FILTER	0	7 Positions not splitted
498	50	1	5	2	SERVER_FILTER	0	7 Filter used in format
498	60	1	6	NULL	ASSET_CLASSIF	0	33 Asset Classification for
reporting					SECTION	0	33 Section link
					CURRENCY_CODIF	0	33 Currency codification
					INSTRUMENT_CODIF	0	33 Instrument codification
					POS_CURRENCY_RANK	0	20 Currency rank
					POS_CURRENCY	0	32 Currency of position
					ASSET_CLASS_RANK	0	10 Asset Class rank
					ASSET_CLASS_DENOM	0	33 Asset Class denomination
					SECTOR_CLASSIF	0	33 Sector Classification
					SECTOR_RANK	0	10 Sector rank
					SECTOR_DENOM	0	33 Sector denomination
					PORTFOLIO_CODE	0	32 Portfolio code
					PORTFOLIO_NAME	0	35 Portfolio name
					INSTR_CODE	0	32 Instrument code
					MATURITY_CLASSIF	0	33 Maturity Classification
					MATURITY_RANK	0	10 Maturity rank
					MATURITY_DENOM	0	33 Maturity denomination
					RATING_CLASSIF	0	33 Rating Classification
					RATING_RANK	0	10 Rating rank
					RATING_DENOM	0	33 Rating denomination
					REGION_CLASSIF	0	33 Region Classification
					REGION_RANK	0	10 Region rank
					REGION_DENOM	0	33 Region denomination
					RISK_UPD_INSTR_F	0	7 Updated risk instrument flag
					SUB_ASSET_CLASS_RANK	0	8 Sub Asset Class Rank
					SUB_ASSET_CLASS	0	14 Sub Asset Class
					CURRENCY_CLASSIF	0	33 Currency Classification
					CURR_CLASS_RANK	0	10 Currency classification rank
					CURR_CLASS_CODE	0	33 Currency classification
code					REF_CURRENCY	0	32 Reference currency (currency
defined in context / domain)	498	380	1	61	NULL		3 Date of reference for
	498	390	1	62	NULL		
computation					COMPUTATION_REF_DATE	0	
					INSTR_DENOM	0	36 Instrument denomination
					ISIN	0	32 ISIN of instrument
					MKT_VAL	0	26 Market value
					TOT_MKT_VAL_PER_PTF	0	26 Portfolio Market Value
					MKT_VAL_PERC_PER_PTF	0	16 Market value
percentage related to portfolio market value					ASSET_MKT_VAL_PER_PTF	0	26 Market value per asset
	498	445	1	68	NULL		
class per portfolio					MKT_VAL_PERC_IN_ASSET_PER_PTF	0	16 Market value
	498	455	1	69	NULL		
percentage related to Asset Class and Portfolio.					QUANTITY	0	16 Quantity
	498	460	1	70	NULL		
	498	470	1	71	NULL		
	498	475	1	72	NULL		
currency or %)					INSTR_PRICE	0	16 Instrument price
	498	480	1	73	NULL		
	498	490	1	74	NULL		
	498	495	1	75	NULL		
(position currency or %)					INSTR_PRICE_SCOPE	0	32 Instr price scope (position

```
=====
aaa@vmlaukor1:/oams/CIP_LX_ORA_JB3/aaahome> ./aaa SQL -Uaaa
use aaamaindb
```

```
(0 rows affected)
{return status = 0}
set dateformat dmy
go
```

```

#EXEC exec_fin_analysis_all_domain @currency_id = 2,
,@dim_port = 'quick_search'
,@function='valo'
,@min_status_e = 90
,@max_status_e = 90
,@fund_split_rule_e = 2
,@port_cons_rule_e = 2
,@default_f = 0
,@disp_result_f = 1
,@calc_from_d='27/05/2019'
,@calc_strat_d='27/05/2019'
,@comp_level_e = 0
,@calc_till_d='27/05/2019'
,@calc_freq_d='27/05/2019'
,@calc_ref_d='27/05/2019'
,@format = 'PCK_PM_VL_CASH'
,@output_type_e = 2
,@port_list_definition_t = '(code IN ("100037-01","100037-02","100009-01","100070-01"))'
,@report_server='CIP_LX_ORA_JB3_S1'
go
```

```
DataSet Number FmElt Number Function Result Id

```

```
1 16 NULL
```

<u>_FmtId</u>	<u>_FmtElRank</u>	<u>_DataSetIndex</u>	<u>_ColIndex</u>	<u>_DspFmt</u>	<u>_SqlName</u>	<u>_HierNtnEn</u>	<u>_DataTpDictId</u>
209	0	1	1	NULL	FILTER	0	7 NULL
209	1	1	2	DD/MM/YY	VALUE_DATE	0	3 Value
209	2	1	3	NULL	CURRENCIES	0	9 Currency
209	4	1	6	20	PORTF	0	1 Portfolio
209	5	1	7	20	INSTR_NAME	0	14 Account Number
209	10	1	8	NULL	POS_CUR	0	1 NULL
209	20	1	9	9,999,999,999.99	QUANTITY	0	16 Amount
209	25	1	10	9,999,999	EXCH_RATE	0	16 Exch Rate
209	28	1	11	NULL	POSCUR_REFCUR	0	1 NULL
209	30	1	12	999,999,999,999.99	MKT_VAL	0	26 Market Value & Int
209	31	1	13	NULL	REF_CUR	0	1 NULL
209	35	1	14	999,999.99	PL_PERC	0	26 P&L (%)
209	40	1	15	9,999.99	MKT_PERC	0	26 % of Cat
209	45	1	16	9,999.99	TOT_MKT_PERC	0	26 % of Ptf
209	65	1	17	NULL	STATUS	0	14 Status
209	70	1	18	NULL	open_oper_id	0	8 Id

(16 rows affected)

Added Entity Flag Columns Number Entity Object Rows Number

0 23 289 20

(1 row affected)

<u>_ColNum</u>	<u>_Datatype</u>	<u>_RefKeyIndex</u>	<u>_RefKeyNbr</u>	<u>_RefKeyEntDictId</u>	<u>_ClassifId</u>	<u>_SortCol</u>	<u>_ZoomFig</u>
1	6	0	0	NULL	NULL	0	0
2	2	0	0	NULL	NULL	0	0
3	8	4	1	400	NULL	5	0
4	7	0	0	NULL	NULL	0	0
5	19	0	0	NULL	NULL	0	0
6	0	20	1	800	NULL	0	1
7	13	21	1	900	NULL	0	1
8	0	22	1	101	NULL	0	1
9	15	0	0	NULL	NULL	0	0
10	15	0	0	NULL	NULL	0	0
11	0	0	0	NULL	NULL	0	0
12	25	0	0	NULL	NULL	0	0
13	0	0	0	NULL	NULL	0	0
14	25	0	0	NULL	NULL	0	0
15	25	0	0	NULL	NULL	0	0
16	25	0	0	NULL	NULL	0	0
17	13	0	0	NULL	NULL	0	0
18	7	23	1	1004	NULL	0	1
19	25	0	0	NULL	NULL	0	0
20	7	0	0	NULL	NULL	0	0
21	7	0	0	NULL	NULL	0	0
22	7	0	0	NULL	NULL	0	0
23	7	0	0	NULL	NULL	0	0

(23 rows affected)

0001 0002	0003	0004	0005 0006		
0007	0008	0009	0010	0011	
0012	0013	0014	0015	0016	0017
0019	0020	0021	0022	0023	0018

1	May 1 2004 12:00AM	Euro			39	1 100037-01	
100037-01_EUR		EUR			-35.54	239960.95	1.72 Accounted
239960.95	NULL						
NULL	1236	7085	2	23629			
1	May 1 2004 12:00AM	Ex Euro			40	5 10009-01	
T_AI_CHF_NESN		CHF				3000.000000000	1.000000000 CHF/
1117950.00	NULL				5.27	1117950.00	8.01 Accounted
NULL	1239	1307	1	23640			
1	May 1 2004 12:00AM	Ex Euro			40	5 100037-02	
T_AI_GBP_BARC		GBP				120.000000000	1.000000000 GBP/
150222.00	NULL				-64.93	150222.00	1.08 Accounted
NULL	1237	1564	1002	23633			
1	May 1 2004 12:00AM	Ex Euro			40	5 100037-02	
T_AI_CHF_NESN		CHF				3000.000000000	1.000000000 CHF/
1117950.00	NULL				5.27	1117950.00	8.01 Accounted
NULL	1237	1307	1	23632			
1	Feb 14 2004 12:00AM	Ex Euro			40	5 10009-01	
T_AI_CHF_KUD		CHF				1500.000000000	1.000000000 CHF/
241530.00	NULL				66.00	241530.00	1.73 Accounted
NULL	1239	1296	1	23638			
1	May 1 2004 12:00AM	Ex Euro			40	5 10009-01	
T_AI_GBP_BARC		GBP				120.000000000	1.000000000 GBP/
150222.00	NULL				-64.93	150222.00	1.08 Accounted
NULL	1239	1564	1002	23641			
1	Feb 14 2004 12:00AM	Ex Euro			40	5 100070-01	
T_AI_CHF_KUD		CHF				1500.000000000	1.000000000 CHF/
241530.00	NULL				66.00	241530.00	1.73 Accounted
NULL	1227	1296	1	23592			
1	May 1 2004 12:00AM	Euro			39	1 100070-01	
100070-01_EUR		EUR				4753358.100000000	1.000000000 EUR/
4753358.10	NULL				-35.54	4753358.10	34.08 Accounted
NULL	1227	7076	2	23595			
1	Feb 14 2004 12:00AM	Ex Euro			40	5 100037-01	
T_AI_CHF_KUD		CHF				300.000000000	1.000000000 CHF/
80510.00	NULL				66.00	80510.00	0.58 Accounted
NULL	1236	1296	1	23626			
1	Apr 16 2004 12:00AM	Dollars			38	10 10009-01	
T_AI_USD_MSFT		USD				3000.000000000	1.000000000 USD/
117540.00	NULL				-52.13	117540.00	0.84 Accounted
NULL	1239	1649	3	23639			
1	Apr 16 2004 12:00AM	Dollars			38	10 100070-01	
T_AI_USD_MSFT		USD				3000.000000000	1.000000000 USD/
117540.00	NULL				-52.13	117540.00	0.84 Accounted
NULL	1227	1649	3	23593			
1	Apr 16 2004 12:00AM	Dollars			38	10 100037-01	
T_AI_USD_MSFT		USD				1000.000000000	1.000000000 USD/

39180.00	NULL				-52.13	39180.00	0.28 Accounted		23627	
NULL	1236	1649	3	23627						
1 May 1 2004 12:00AM Euro						39	1 100037-02			
100037-02_EUR							2753358.100000000			
2753358.10	NULL				-35.54	2753358.10	19.74 Accounted	1.000000000 EUR/	23633	
1 May 1 2004 12:00AM Ex Euro						40	5 100037-01			
T_AI_CHF_NESN							1000.000000000			
372650.00	NULL					5.27	372650.00	2.67 Accounted	1.000000000 CHF/	23628
NULL	1236	1307	1	23628						
1 May 1 2004 12:00AM Ex Euro						40	5 100037-01			
T_AI_GBP_BARC							60.000000000			
7511.00	NULL				-64.93	7511.00	0.54 Accounted	1.000000000 GBP/	23629	
NULL	1236	1564	1002	23629						
1 Feb 14 2004 12:00AM Ex Euro						40	5 100037-02			
T_AI_CHF_KUD							1500.000000000			
241530.00	NULL				66.00	241530.00	1.73 Accounted	1.000000000 CHF/	23630	
NULL	1237	1296	1	23630						
1 Apr 16 2004 12:00AM Dollars						38	10 100037-02			
T_AI_USD_MSFT							3000.000000000			
117540.00	NULL				-52.13	117540.00	0.84 Accounted	1.000000000 USD/	23631	
NULL	1237	1649	3	23631						
1 May 1 2004 12:00AM Euro						39	1 100009-01			
100009-01_EUR							753358.100000000			
753358.10	NULL				-35.54	753358.10	5.40 Accounted	1.000000000 EUR/	23641	
NULL	1239	7088	2	23641						
1 May 1 2004 12:00AM Ex Euro						40	5 100070-01			
T_AI_GBP_BARC							120.000000000			
150222.00	NULL				-64.93	150222.00	1.08 Accounted	1.000000000 GBP/	23595	
NULL	1227	1564	1002	23595						
1 May 1 2004 12:00AM Ex Euro						40	5 100070-01			
T_AI_CHF_NESN							3000.000000000			
1117950.00	NULL				5.27	1117950.00	8.01 Accounted	1.000000000 CHF/	23594	
NULL	1227	1307	1	23594						

(20 rows affected)  
(return status = 0)

```
=====
./aaa SQL-Uaaa
use aaamaindb
go
set dateformat dmy
go
#EXEC exec_fin_analysis_all_domain @currency_id = 2
,@dim_port ='portfolio'
,@dim_entity ='quick_search'
,@function='pa_analysis'
,@min_status_e = 90
,@max_status_e = 90,@fund_split_rule_e = 1,@port_cons_rule_e = 2,@pos_logical_rule_e = 1
,@freq1_n = 1
,@freq1_unit_e = 4
,@freq2_n = 1
,@freq2_unit_e = 1
,@port_list_definition_t = '(code IN ("100009-01", "100037-01", "100037-02", "100070-01"))'
,@default_f = 0
,@disp_result_f = 1
,@calc_from_d ='23/02/2024'
,@calc_strat_d ='23/04/2024'
,@comp_level_e = 0
,@calc_till_d ='23/04/2024'
,@calc_freq_d ='23/02/2024'
,@calc_ref_d ='23/02/2024'
,@format ='PCK_PM_RA_GLOBAL'
,@output_type_e = 2
,@report_server='CIP_LX_ORA_JB3_S1'
go
```

DataSet Number FmElt Number Function Result Id

1	37	NULL
---	----	------

(1 row affected)

_FmtId	_FmtElRank	_DataSetIndex	_ColIndex	_DspFmt	_SqlName	_HierNatEn	_DataTpDictId
_Denom							
158	1	1	1	NULL	filtré	0	7 filtré
158	2	1	2	NULL	object	0	1 Objekt
158	3	1	3	NULL	freq	0	11 freq
158	5	1	4	NULL	init_d	0	2 initial Date
158	6	1	5	NULL	final_d	0	2 final date
158	20	1	6	NULL	initial_MV	0	26 Initial Market Value
158	21	1	7	NULL	final_MV	0	26 Final Market Value
158	22	1	8	NULL	diff_MV	0	26 diff. Market Value
158	25	1	9	NULL	flow_m	0	26 Flows
158	26	1	10	NULL	invest_m	0	26 Investments
158	27	1	11	NULL	withdrawal_m	0	26 Withdrawals
158	31	1	12	NULL	pl_m	0	26 Profit / Loss
158	32	1	13	NULL			

```
#EXEC collect_eval_entities @entity_sqlname_c='buy_operation',@parameter1='|status_e|=|25|;|type_id.code|=|BUY|;|account_d|=|20240820000000|;|operation_d|=|
20240820000000|;|portfolio_id.code|=|T_AI_PTF11|;|instr_id.code|=|1997KPN|;|instr_id.name|=|1997KPN|;|portfolio_id.name|=|T_AI_PTF11|;|quantity_n|=|100.000000000|;
|quote_n|=|5.25|;|price_n|=|5.25|;|op_gross_amount_m|=|50.00|'"
```

#EXEC eval\_entity\_with\_collection @command\_e=6, @output\_mode=1

```
=====
#EXEC collect_eval_entities @entity_sqlname_c='portfolio',@parameter1='|code|=|HIA_PTF11|;|name|=|HIA_PTF11|;|currency_id.code|=|EUR|;|language_dict_id.code|=|en|;
|nature_e|=|1|;|active_f|=|1|;|data_secu_prof_id.code|=|DEF_DATA_SECU_PROF|';@parameter2='|code|=|HIA_PTF12|;|name|=|HIA_PTF12|;|currency_id.code|=|EUR|;
|language_dict_id.code|=|en|;|nature_e|=|1|;|active_f|=|1|;|data_secu_prof_id.code|=|DEF_DATA_SECU_PROF|';@parameter3='|code|=|HIA_PTF13|;|name|=|
HIA_PTF13|;|currency_id.code|=|EUR|;|language_dict_id.code|=|en|;|nature_e|=|1|;|active_f|=|1|;|data_secu_prof_id.code|=|DEF_DATA_SECU_PROF|';@parameter4='
|code|=|HIA_PTF14|;|name|=|HIA_PTF14|;|currency_id.code|=|EUR|;|language_dict_id.code|=|en|;|nature_e|=|1|;|active_f|=|1|;|data_secu_prof_id.code|=|
DEF_DATA_SECU_PROF|';@parameter5='|code|=|HIA_PTF15|;|name|=|HIA_PTF15|;|currency_id.code|=|EUR|;|language_dict_id.code|=|en|;|nature_e|=|1|;|active_f|=|
1|;|data_secu_prof_id.code|=|DEF_DATA_SECU_PROF|';
go
```

#EXEC eval\_entity\_with\_collection @command\_e=6, @output\_mode=1

```
=====
2024-08-21T11:52:00,125 | DEBUG | advisor | | Default_Worker-7 | http.FSCallHttp | Begin block, Send 3 entities, TripleAService=INSERT
```

```

2024-08-21T11:52:00.125 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | #EXEC collect_eval_entities @entity_sqlname_c='notif_subject_body',@parameter1
=||body_c|=|Body in EN for T_AI_JUNIT_AD_ND_PRIVATE_2MIN_NOTIF|;notif_instance_id|=|453|;language_dict_id|=|1|;subject_c|=|Subject in EN for
T_AI_JUNIT_AD_ND_PRIVATE_2MIN_NOTIF|;language_dict_id|=|en|,"@parameter2="||body_c|=|Body in FR for T_AI_JUNIT_AD_ND_PRIVATE_2MIN_NOTIF|;
|notif_instance_id|=|453|;language_dict_id|=|2|;subject_c|=|Subject in FR for T_AI_JUNIT_AD_ND_PRIVATE_2MIN_NOTIF|;language_dict_id|=|fr|,"@parameter3
=||body_c|=|Body DE for T_AI_JUNIT_AD_ND_PRIVATE_2MIN_NOTIF|;notif_instance_id|=|453|;language_dict_id|=|3|;subject_c|=|Subject in DE for
T_AI_JUNIT_AD_ND_PRIVATE_2MIN_NOTIF|;language_dict_id|=|de|,"
2024-08-21T11:52:00.127 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | #EXEC eval_entity_with_collection INSERT(6),@user_id=4,@output_mode=1,
@appl_session_code='YE6WKOHSZRLJDC3LKR5W98RMX4WDZC99PFNQF6KGJ6GM'
2024-08-21T11:52:00.151 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | Result : INSERT(6)
1 <= notif_subject_body , "|id|=|1285|,"
2024-08-21T11:52:00.151 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | 2 <= notif_subject_body , "|id|=|1286|,"
2024-08-21T11:52:00.151 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | 3 <= notif_subject_body , "|id|=|1287|,"
2024-08-21T11:52:00.151 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | msg[0]: Info: [null] Creation succeeded.
2024-08-21T11:52:00.151 | DEBUG | advisor | | | Default_Worker-7 | http.BlockAdmin | #EXEC eval_entity_with_collection ,@command_e=CLOSE(9),
@appl_session_code='YE6WKOHSZRLJDC3LKR5W98RMX4WDZC99PFNQF6KGJ6GM'
2024-08-21T11:52:00.157 | DEBUG | advisor | | | Default_Worker-7 | http.FSCallHttp | End block, TripleAService=INSERT
=====

```

```

select * from appl_session where code='60MJWERNEQFOY2JX52M7V9MWSKNOJ3GHSULMOGT5I0KNKE';
begin init_exd_position_by_domain (800 ,1 ,NULL ,NULL ,0 ,90 ,0 ,`31-10-2024 00:00:00` ,`31-10-2024
00:00:00` ,2 ,0 ,0 ,1 ,NULL ,NULL ,0 ,1 ,1 ,2 ,0 ,1 ,NULL ,0 ,NULL ,0 ,120 ,0 ,0 ,0 ,0);end;
begin sel_exd_pos_for_valo_by_def_d (800 ,NULL ,0 ,90 ,0 ,0 ,`31-10-2024 00:00:00` ,`31-10-2024 00:00:00` ,0 ,0 ,0 ,NULL ,0);end;
/
select V_SCB_ORA5_AAAMAINDB.get_connected_appl_user_id() from dual ;

```

```

insert into V_SCB_ORA5_AAAMAINDB.tt_dom_port (
id,
port_pos_set_id,
hier_port_id,
fusion_date_rule_e /*REF10722-BRO-060912*/
)
values(
1,
0,
NULL,
0);

```

## collect\_eval\_entities and eval\_entity\_with\_collection

21 August 2024 21:43

After a first working session, the following elements have been added :

- only the following individual services will be provided on the financial server side : Initial Value (all mode), Input Control, Insert, Update & Delete
- Initial Value Service will be based on the following feature : all non null data will be considered as "locked"
- Compared to eval\_entity RPC, the second block, i.e. permitted values & filters data, will not be build
- all database actions will be done in a single transaction
- both sides (TASC & Fin. Srv) must respect the order of elements sent or received to allow a matching of messages to their corresponding record by a sequence number added to the message table output

- Adding "sequence\_no" to EvalEntityError, EvalEntityValues and EvalEntityEnum, return by RPC.
- Dynamic structure EvalEntity is associate to object EvalEntityEnt.
- Two new RPC was created, eval\_entity\_with\_collection and collect\_eval\_entity.
- All the commands of eval\_entity are used with eval\_entity\_with\_collection.
- One new command for eval\_entity\_with\_collection : Close (9). Purge all elements in collection.
- The function SERV\_EvalEntityWithCollection call SERV\_EvalEntity for each elements in collection.
- The block 2 (EvalEntityEnum) is not returned by eval\_entity\_with\_collection.
- If error with Insert, Update or Delete, only the block 3 (message) is returned.

Parameters of eval\_entity\_with\_collection : @command\_e, @screen\_dict\_id, @lang\_dict\_id

Parameters of collect\_eval\_entity : @entity\_sqlname\_c, @parameter

Files :

- 1) dbadef.h!15
- 2) dbadyndef.c!27.1.21
- 3) dbaproedef.c!30
- 4) descdyn.c!38
- 5) descdyn.h!81
- 6) function\_result\_da.sql
- 7) permval.h!12
- 8) serv.h!26
- 9) servlib.c!1.1.55
- 10) servlib2.c!37
- 11) sybrpc.c!21.9.1.4
- 12) sybrpc.h!15.1.1
- 13) sybrpc2.c!39
- 14) sybsrvcb.c!37.1.3

Test case :

```
isql -S %ServerName% -Uaaa -Paaaaaa -w2000 -i %File%
```

```
collect_portfolio
NULL,"LIE_TEST_COLLECT","LIE_TEST_COLLECT","toto",27102060,26,26,NULL,NULL,NULL,NULL,NULL,NULL,1,NULL,NULL,NULL,NULL,NULL,NULL,1,NULL,0,0,0,1,1,0,NU
LL,NULL,0,0,1,4,0,0,0,0,NULL,"09/10/2003 00:00:00",NULL,NULL,NULL,NULL,NULL,1,4,0,"07/31/2001
00:00:00",0,0,NULL,NULL,NULL,NULL,405302976,"",0,0,0,NULL,NULL,NULL,NULL
go
collect_portfolio
NULL,"LIE_TEST_COLLECT2",NULL,"toto",27102060,26,26,NULL,NULL,NULL,NULL,NULL,1,NULL,NULL,NULL,NULL,NULL,NULL,1,NULL,0,0,0,1,1,0,NULL,NULL,0,0,
4,0,0,0,0,NULL,"09/10/2003 00:00:00",NULL,NULL,NULL,NULL,NULL,1,4,0,"07/31/2001
00:00:00",0,0,NULL,NULL,NULL,NULL,405302976,"",0,0,0,NULL,NULL,NULL,NULL
go
collect_portfolio
NULL,"LIE_TEST",NULL,"toto",27102060,26,26,NULL,NULL,NULL,NULL,NULL,1,NULL,NULL,NULL,NULL,NULL,1,NULL,0,0,0,1,1,0,NULL,NULL,0,0,1,4,0,0,0,0,NU
LL,"09/10/2003 00:00:00",NULL,NULL,NULL,NULL,NULL,1,4,0,"07/31/2001 00:00:00",0,0,NULL,NULL,NULL,NULL,405302976,"",0,0,0,NULL,NULL,NULL,NULL
go
eval_entity_with_collection 0, NULL, 0
go
eval_entity_with_collection 9, NULL, 0
go
-- eval_entity_with_collection 0, NULL, 0 -- DV_full
-- eval_entity_with_collection 1, NULL, 0 -- DV + IC
-- eval_entity_with_collection 3, NULL, 0 -- DV partial
-- eval_entity_with_collection 4, NULL, 0 -- IC
-- eval_entity_with_collection 5, NULL, 0 -- Get
-- eval_entity_with_collection 6, NULL, 0 -- Insert
-- eval_entity_with_collection 7, NULL, 0 -- Update
-- eval_entity_with_collection 8, NULL, 0 -- Delete
-- eval_entity_with_collection 9, NULL, 0 -- Close (purge all the elements)
-- eval_entity_with_collection 10, NULL, 0 -- DV Dependlist
-- 11 - Update by Function Script
-- 12 - Function rights
-- 13 -
-- 14 -
```

```
--15- Get+DV_partial+IC+Insert/Update
--16-Get+DV_Partial+IC

collect_eval_entity "portfolio", "|code|:=|LJE_TEST_COLLECT_EE|;"
go
eval_entity_with_collection 0, NULL, 0
go
eval_entity_with_collection 9, NULL, 0
go
```

## Introduction

The document describes briefly two services that the Triple'A financial server should provide in a future release. These services will be used in the scope of the SGBT project: Block Order Handling. The detailed specifications of the overall project are yet available, but we can forecast this impact on Triple'A. These two new services are a mandatory requirement and they have to be available in a Triple'A version released for august 2004 at the latest. If not, this will have an impact on the delivery date of the SGBT project.

## Functional Requirements

### New Input Control Service

This service will have as input a set of orders. This set represents an Order Session coming from the Triple'A Web Interface (TWI). The user is at the final stage of the Order Session Workflow: the validation step. This validation corresponds to the evaluation of the Triple'A Input Control Scripts for all orders of the session. The result of this call is a set of messages: either warning or error messages, linked to specific orders or global to the session.

Here are some ad additional requirements:

- Any message may be linked to an order property
- There is a "domain", i.e. a context describing who is working with this session (security right, language ...) or where do the orders come from (session reference, book portfolio ...)

### New Insert / Update Service

Like the previous service, a set of orders is the entry point of this feature. This service should support the following features:

- The order session may contains global orders or not
- The server should be able to update the properties of the global order before saving the result to the database
- This service should be able to create a new session or update an existing one. In both cases, a transaction must be used for a proper roll-back of the action in case of errors
- The session is either "draft" or "final". When a session is final, it can not be updated anymore
- The orders list is not sorted at all, but they may be linked together (through a reference to the same "block order code"). The service must take care of that point to respect the database integrity

### Additional Requirements

- The evaluation of Default Script may also be required.

## Technical Requirements

These two new services must be based on the same technical infrastructure to ease the usage by TASC. The same mechanism will be used:

- A generic JDBC connection (un authentification)
- The following RPCs : call\_with\_with\_collection, collect\_ext\_operation, collect\_domain

The volume handled by theses services corresponds to standard Order Sessions for Relationship Managers: 10 to 400 orders by session. The average session size should closer to 10 than to 400.

The response time is a key point for the users of the system. For small sessions, the system should answer immediately (less than 3 seconds). For bigger sessions, the user will accept to wait a moment, bit no more than 30 seconds.

## Conclusion

The development mentioned here will be used in a further release of TASC / TWI. The detail content of these specifications may change in the coming weeks, because the scope of the overall SGBT project is still under definition. However, the basic mechanism will remain unchanged. The most important point is to evaluate the feasibility of such a development in Triple'A.

### Incident description :

For clients moving from GUI to WUI, the scripts are a big issue. The clients want to keep as much as possible the development effort they invested on screens and DV, IC. In Triple'A, scripting language, the user can define dependencies between attributes. The change of one attribute might change values of other depending attributes. This could occur in cascade, requiring a hierarchy in this cascade of dependancies. Some dependencies might be hidden in script key words.

With the HTML technology, any event result in a call to the server. For every tab key entered by the user, the worksation sould call the server for dependencies evaluations. The solution might be to split one input screen in multiple independant screens.

Thus we need to evaluate how many screens would be required for a edit screen like instrument with nature bond or stock.

A tool, developped with existing RPC or separated will list the dependancies in a simple mode for a beginning.

New option (10) in eval\_entity RPC to compute only default values dependences.

Modify SCPT\_ComputeScreenDV and SCPT\_AnalyseEntityDefVal to send dependences to eval\_entity.

New block in eval\_entity who send EvalEntityValues structure.

```
eval_entity 10, "instrument", "", NULL, NULL
```

param_name	entity_sqlname	label	sequence_no	datatype	value
report_name					
-----				-----	-----
name					NULL NULL
code	instrument	NULL	NULL		
name					NULL NULL
nature_e	instrument	NULL	NULL		
denom					NULL NULL
name	instrument	NULL	NULL		
type_id					NULL NULL
code	instrument	NULL	NULL		
subtype_id					NULL NULL
type_id	instrument	NULL	NULL		



































```

;|rule_applicability_e|=0;|fusion_rule_e|=0;|smart_rounding_f|=0;|order_netting_e|=0;|payment_status_e|=2;|charge_code_e|=0;|hier_oper_nat_e|=0;
|bid_type_e|=0;|op_fusion_rule_e|=0;|sub_pos_nat3_e|=0;|external_trade_f|=0;|lock_sub_pos_nat2_e|=0;|nature_e|=0;|client_init_e|=0;|global_position_f|=0;
|ex_coupon_f|=0;|adj_sub_pos_nat2_e|=0;|order_fee_e|=0;|price_calc_rule_e|=0;|order_check_e|=0;|ref_nat_e|=0;|target_nature_e|=0;|db_status_e|=0;
|sub_pos_nat2_e|=0;|order_validity_nat_e|=0;|renewal_length_unit_e|=0;|no_position_f|=0;|executed_f|=0;|selected_f|=0;|event_action_e|=0;|lock_sub_pos_nat3_e|=0;
|check_strat_e|=0;|adj_sub_pos_nat3_e|=0;|fx_rate_direction_f|=0;|settle_status_e|=2;|right_to_run_f|=0;|confirm_f|=0;|fact_sheet_e|=0;|adj_nat_e|=0
;|parent_oper_nat_e|=0;|fusion_e|=0;|status_e|=0;|op_action_e|=0;|execut_oper_status_e|=0;|order_inclusion_e|=1;|check_parent_e|=0;|order_price_nat_e|=0
;|payment_option_e|=0;|order_nat_e|=0;|transaction_nature_e|=0;|auto_renewal_e|=0;|sub_pos_nat_e|=0;|adj_sub_pos_nat_e|=0;|renewal_treatment_e|=0;
|lock_nat_e|=0;|in_session_f|=1;" ,@parameter48=""|compound_impact_rule_e|=0;|op_split_rule_e|=0;|hedge_trade_e|=0;|otc_order_e|=0;|lock_sub_pos_nat_e|=0;
|id:=4015913708;|corporate_action_nature_e|=0;|revers_oper_nat_e|=0;|default_fus_rule_e|=0;|commission_code_e|=0;|derivative_ord_e|=0;
|execut_oper_nat_e|=0;|stp_order_e|=0;|contract_length_unit_e|=0;|rule_applicability_e|=0;|fusion_rule_e|=0;|smart_rounding_f|=0;|order_netting_e|=0;
|payment_status_e|=2;|charge_code_e|=0;|hier_oper_nat_e|=0;|bid_type_e|=0;|op_fusion_rule_e|=0;|sub_pos_nat3_e|=0;|external_trade_f|=0;
|lock_sub_pos_nat2_e|=0;|nature_e|=0;|client_init_e|=0;|global_position_f|=0;|ex_coupon_f|=0;|adj_sub_pos_nat2_e|=0;|order_fee_e|=0;|price_calc_rule_e|=0;
|order_check_e|=0;|ref_nat_e|=0;|target_nature_e|=0;|db_status_e|=0;|sub_pos_nat2_e|=0;|order_validity_nat_e|=0;|renewal_length_unit_e|=0;
|no_position_f|=0;|executed_f|=0;|selected_f|=0;|event_action_e|=0;|lock_sub_pos_nat3_e|=0;|check_strat_e|=0;|adj_sub_pos_nat3_e|=0;|fx_rate_direction_f|=0
;|settle_status_e|=2;|right_to_run_f|=0;|confirm_f|=0;|fact_sheet_e|=0;|adj_nat_e|=0;|parent_oper_nat_e|=0;|fusion_e|=0;|status_e|=0;|op_action_e|=0
;|execut_oper_status_e|=0;|order_inclusion_e|=1;|check_parent_e|=0;|order_price_nat_e|=0;|payment_option_e|=0;|order_nat_e|=0;|transaction_nature_e|=0;
|auto_renewal_e|=0;|sub_pos_nat_e|=0;|adj_sub_pos_nat_e|=0;|renewal_treatment_e|=0;|lock_nat_e|=0;|in_session_f|=1;" ,@parameter49
=""|compound_impact_rule_e|=0;|op_split_rule_e|=0;|hedge_trade_e|=0;|otc_order_e|=0;|lock_sub_pos_nat_e|=0;|id:=4015913829;|corporate_action_nature_e|=0
;|revers_oper_nat_e|=0;|default_fus_rule_e|=0;|commission_code_e|=0;|derivative_ord_e|=0;|execut_oper_nat_e|=0;|stp_order_e|=0;|contract_length_unit_e|=0
;|rule_applicability_e|=0;|fusion_rule_e|=0;|smart_rounding_f|=0;|order_netting_e|=0;|payment_status_e|=2;|charge_code_e|=0;|hier_oper_nat_e|=0;
|bid_type_e|=0;|op_fusion_rule_e|=0;|sub_pos_nat3_e|=0;|external_trade_f|=0;|lock_sub_pos_nat2_e|=0;|nature_e|=0;|client_init_e|=0;|global_position_f|=0;
|ex_coupon_f|=0;|adj_sub_pos_nat2_e|=0;|order_fee_e|=0;|price_calc_rule_e|=0;|order_check_e|=0;|ref_nat_e|=0;|target_nature_e|=0;|db_status_e|=0;
|sub_pos_nat2_e|=0;|order_validity_nat_e|=0;|renewal_length_unit_e|=0;|no_position_f|=0;|executed_f|=0;|selected_f|=0;|event_action_e|=0;|lock_sub_pos_nat3_e|=0;
|check_strat_e|=0;|adj_sub_pos_nat3_e|=0;|fx_rate_direction_f|=0;|settle_status_e|=2;|right_to_run_f|=0;|confirm_f|=0;|fact_sheet_e|=0;|adj_nat_e|=0
;|parent_oper_nat_e|=0;|fusion_e|=0;|status_e|=0;|op_action_e|=0;|execut_oper_status_e|=0;|order_inclusion_e|=1;|check_parent_e|=0;|order_price_nat_e|=0
;|payment_option_e|=0;|order_nat_e|=0;|transaction_nature_e|=0;|auto_renewal_e|=0;|sub_pos_nat_e|=0;|adj_sub_pos_nat_e|=0;|renewal_treatment_e|=0;
|lock_nat_e|=0;|in_session_f|=1;" ,@parameter50=""|compound_impact_rule_e|=0;|op_split_rule_e|=0;|hedge_trade_e|=0;|otc_order_e|=0;|lock_sub_pos_nat_e|=0;
|id:=4015913709;|corporate_action_nature_e|=0;|revers_oper_nat_e|=0;|default_fus_rule_e|=0;|commission_code_e|=0;|derivative_ord_e|=0;
|execut_oper_nat_e|=0;|stp_order_e|=0;|contract_length_unit_e|=0;|rule_applicability_e|=0;|fusion_rule_e|=0;|smart_rounding_f|=0;|order_netting_e|=0;
|payment_status_e|=2;|charge_code_e|=0;|hier_oper_nat_e|=0;|bid_type_e|=0;|op_fusion_rule_e|=0;|sub_pos_nat3_e|=0;|external_trade_f|=0;
|lock_sub_pos_nat2_e|=0;|nature_e|=0;|client_init_e|=0;|global_position_f|=0;|ex_coupon_f|=0;|adj_sub_pos_nat2_e|=0;|order_fee_e|=0;|price_calc_rule_e|=0;
|order_check_e|=0;|ref_nat_e|=0;|target_nature_e|=0;|db_status_e|=0;|sub_pos_nat2_e|=0;|order_validity_nat_e|=0;|renewal_length_unit_e|=0;
|no_position_f|=0;|executed_f|=0;|selected_f|=0;|event_action_e|=0;|lock_sub_pos_nat3_e|=0;|check_strat_e|=0;|adj_sub_pos_nat3_e|=0;|fx_rate_direction_f|=0
;|settle_status_e|=2;|right_to_run_f|=0;|confirm_f|=0;|fact_sheet_e|=0;|adj_nat_e|=0;|parent_oper_nat_e|=0;|fusion_e|=0;|status_e|=0;|op_action_e|=0
;|execut_oper_status_e|=0;|order_inclusion_e|=1;|check_parent_e|=0;|order_price_nat_e|=0;|payment_option_e|=0;|order_nat_e|=0;|transaction_nature_e|=0;
|auto_renewal_e|=0;|sub_pos_nat_e|=0;|adj_sub_pos_nat_e|=0;|renewal_treatment_e|=0;|lock_nat_e|=0;|in_session_f|=1;"
```

2024-09-02T13:53:50,768 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC collect\_eval\_entities @entity\_sqlname\_c='ext\_operation'

2024-09-02T13:53:50,770 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC eval\_entity\_with\_collection DELETE(8),@lang\_dict\_id=1,@user\_id=4,@output\_mode=1,
@appl\_session\_code='4691c810-5eff-49da-b2b1-72fc9bcf-2773-4c97-b6fd'

2024-09-02T13:54:19,211 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | jsonserial.RpcEntityListFastTransferOutputDeserializer | Unhandled block returned from Triple'a :CustomDynFld
2024-09-02T13:54:19,211 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | Result : DELETE(8)
1 <= ext\_operation , ""

2024-09-02T13:54:19,211 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | msg[0]: Info: [null] Delete succeeded.

2024-09-02T13:54:19,211 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC eval\_entity\_with\_collection ,@command\_e=CLOSE(9),
@appl\_session\_code='4691c810-5eff-49da-b2b1-72fc9bcf-2773-4c97-b6fd'

2024-09-02T13:54:19,222 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.FSCallHttp | End block, TripleAService=DELETE

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2024-09-02T13:54:19,224 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.FSCallHttp | Begin block, Send 200 entities, TripleAService=DELETE
2024-09-02T13:54:19,228 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-
pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC collect\_eval\_entities @entity\_sqlname\_c='ext\_operation',@parameter1
=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0;|id:=4015913978;|corporate\_action\_nature\_e|=0
;|revers\_oper\_nat\_e|=0;|default\_fus\_rule\_e|=0;|commission\_code\_e|=0;|derivative\_ord\_e|=0;|execut\_oper\_nat\_e|=0;|stp\_order\_e|=0;|contract\_length\_unit\_e|=0
;|rule\_applicability\_e|=0;|fusion\_rule\_e|=0;|smart\_rounding\_f|=0;|order\_netting\_e|=0;|payment\_status\_e|=2;|charge\_code\_e|=0;|hier\_oper\_nat\_e|=0;
|bid\_type\_e|=0;|op\_fusion\_rule\_e|=0;|sub\_pos\_nat3\_e|=0;|external\_trade\_f|=0;|lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;
|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;
|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;
|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0
;|parent\_oper\_nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0;|execut\_oper\_status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0
;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;
|lock\_nat\_e|=0;|in\_session\_f|=1;" ,@parameter2=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0
;|id:=4015913733;|corporate\_action\_nature\_e|=0;|revers\_oper\_nat\_e|=0;|default\_fus\_rule\_e|=0;|commission\_code\_e|=0;|derivative\_ord\_e|=0;
|execut\_oper\_nat\_e|=0;|stp\_order\_e|=0;|contract\_length\_unit\_e|=0;|rule\_applicability\_e|=0;|fusion\_rule\_e|=0;|smart\_rounding\_f|=0;|order\_netting\_e|=0;
|payment\_status\_e|=2;|charge\_code\_e|=0;|hier\_oper\_nat\_e|=0;|bid\_type\_e|=0;|op\_fusion\_rule\_e|=0;|sub\_pos\_nat3\_e|=0;|external\_trade\_f|=0;
|lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;
|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;
|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0
;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0;|parent\_oper\_nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0
;|execut\_oper\_status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;
|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;|lock\_nat\_e|=0;|in\_session\_f|=1;" ,@parameter3
=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0;|id:=4015913975;|corporate\_action\_nature\_e|=0





































2024-09-02T13:54:19,371 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.FSCallHttp | End block, TripleAService=DELETE  
2024-09-02T13:54:19,371 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | fscall.FinSrvDataSourceByQueue | MultiDB --> Connection created from pool : V\_SYB\_MB1\_S1

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2024-09-02T13:54:19,372 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.FSCallHttp | Begin block, Send 12 entities, TripleAService=DELETE  
2024-09-02T13:54:19,373 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC collect\_eval\_entities @entity\_sqlname\_c='ext\_operation',@parameter1  
"|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914016|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;execut\_oper\_nat\_e|=0|;payment\_status\_e|=2|;charge\_code\_e|=0|;hier\_oper\_nat\_e|=0|;  
|bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;  
|ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;  
|sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;right\_to\_run\_f|=0|;settle\_status\_e|=2|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;  
|parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;  
|payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;auto\_renewal\_e|=0|;sub\_pos\_nat\_e|=0|;adj\_sub\_pos\_nat\_e|=0|;renewal\_treatment\_e|=0|;  
|lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter2="|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914019|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
payment\_status\_e|=2|;charge\_code\_e|=0|;hier\_oper\_nat\_e|=0|;bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;  
lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;  
order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;  
no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;  
settle\_status\_e|=2|;right\_to\_run\_f|=0|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;  
execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;  
auto\_renewal\_e|=0|;sub\_pos\_nat\_e|=0|;adj\_sub\_pos\_nat\_e|=0|;renewal\_treatment\_e|=0|;lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter3  
"|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914020|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;  
ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;  
sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;  
settle\_status\_e|=2|;right\_to\_run\_f|=0|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;  
execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;  
lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter4="|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914021|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
payment\_status\_e|=2|;charge\_code\_e|=0|;hier\_oper\_nat\_e|=0|;bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;  
lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;  
order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;  
no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;  
settle\_status\_e|=2|;right\_to\_run\_f|=0|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;  
execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;  
auto\_renewal\_e|=0|;sub\_pos\_nat\_e|=0|;adj\_sub\_pos\_nat\_e|=0|;renewal\_treatment\_e|=0|;lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter5  
"|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914024|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;  
ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;  
sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;  
settle\_status\_e|=2|;right\_to\_run\_f|=0|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;  
execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;  
lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter6="|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914025|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
payment\_status\_e|=2|;charge\_code\_e|=0|;hier\_oper\_nat\_e|=0|;bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;  
lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;  
order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;  
no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;  
settle\_status\_e|=2|;right\_to\_run\_f|=0|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;  
execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;  
lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter7  
"|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914022|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;lock\_sub\_pos\_nat2\_e|=0|;nature\_e|=0|;client\_init\_e|=0|;global\_position\_f|=0|;  
ex\_coupon\_f|=0|;adj\_sub\_pos\_nat2\_e|=0|;order\_fee\_e|=0|;price\_calc\_rule\_e|=0|;order\_check\_e|=0|;ref\_nat\_e|=0|;target\_nature\_e|=0|;db\_status\_e|=0|;  
sub\_pos\_nat2\_e|=0|;order\_validity\_nat\_e|=0|;renewal\_length\_unit\_e|=0|;no\_position\_f|=0|;executed\_f|=0|;selected\_f|=0|;event\_action\_e|=0|;lock\_sub\_pos\_nat3\_e|=0|;check\_strat\_e|=0|;adj\_sub\_pos\_nat3\_e|=0|;fx\_rate\_direction\_f|=0|;  
settle\_status\_e|=2|;right\_to\_run\_f|=0|;confirm\_f|=0|;fact\_sheet\_e|=0|;adj\_nat\_e|=0|;parent\_oper\_nat\_e|=0|;fusion\_e|=0|;status\_e|=0|;op\_action\_e|=0|;  
execut\_oper\_status\_e|=0|;order\_inclusion\_e|=1|;check\_parent\_e|=0|;order\_price\_nat\_e|=0|;payment\_option\_e|=0|;order\_nat\_e|=0|;transaction\_nature\_e|=0|;  
lock\_nat\_e|=0|;in\_session\_f|:=1|";@parameter8="|"compound\_impact\_rule\_e|=0|;op\_split\_rule\_e|=0|;hedge\_trade\_e|=0|;otc\_order\_e|=0|;lock\_sub\_pos\_nat\_e|=0|;id:=4015914023|;corporate\_action\_nature\_e|=0|;revers\_oper\_nat\_e|=0|;default\_fus\_rule\_e|=0|;commission\_code\_e|=0|;derivative\_ord\_e|=0|;  
execut\_oper\_nat\_e|=0|;stp\_order\_e|=0|;contract\_length\_unit\_e|=0|;rule\_applicability\_e|=0|;fusion\_rule\_e|=0|;smart\_rounding\_f|=0|;order\_netting\_e|=0|;  
payment\_status\_e|=2|;charge\_code\_e|=0|;hier\_oper\_nat\_e|=0|;bid\_type\_e|=0|;op\_fusion\_rule\_e|=0|;sub\_pos\_nat3\_e|=0|;external\_trade\_f|=0|;

lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0;|parent\_oper nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0;|execut\_oper status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;|lock\_nat\_e|=0;|in\_session\_f|=1;"@parameter9  
=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0;|id|=4015914028;|corporate\_action\_nature\_e|=0;|revers\_oper nat\_e|=0;|default\_fus\_rule\_e|=0;|commission\_code\_e|=0;|derivative\_ord\_e|=0;|execut\_oper nat\_e|=0;|stp\_order\_e|=0;|contract\_length\_unit\_e|=0;|rule\_applicability\_e|=0;|fusion\_rule\_e|=0;|smart\_rounding\_f|=0;|order\_netting\_e|=0;|payment\_status\_e|=2;|charge\_code\_e|=0;|hier\_oper nat\_e|=0;  
|bid\_type\_e|=0;|op\_fusion\_rule\_e|=0;|sub\_pos\_nat3\_e|=0;|external\_trade\_f|=0;|lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0;|parent\_oper nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0;|execut\_oper status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;|lock\_nat\_e|=0;|in\_session\_f|=1;"@parameter10=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0;|id|=4015914029;|corporate\_action\_nature\_e|=0;|revers\_oper nat\_e|=0;|default\_fus\_rule\_e|=0;|commission\_code\_e|=0;|derivative\_ord\_e|=0;  
|execut\_oper nat\_e|=0;|stp\_order\_e|=0;|contract\_length\_unit\_e|=0;|rule\_applicability\_e|=0;|fusion\_rule\_e|=0;|smart\_rounding\_f|=0;|order\_netting\_e|=0;|payment\_status\_e|=2;|charge\_code\_e|=0;|hier\_oper nat\_e|=0;|bid\_type\_e|=0;|op\_fusion\_rule\_e|=0;|sub\_pos\_nat3\_e|=0;|external\_trade\_f|=0;|lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0;|parent\_oper nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0;|execut\_oper status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;|lock\_nat\_e|=0;|in\_session\_f|=1;"@parameter11  
=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0;|id|=4015914026;|corporate\_action\_nature\_e|=0;|revers\_oper nat\_e|=0;|default\_fus\_rule\_e|=0;|commission\_code\_e|=0;|derivative\_ord\_e|=0;|execut\_oper nat\_e|=0;|stp\_order\_e|=0;|contract\_length\_unit\_e|=0;|rule\_applicability\_e|=0;|fusion\_rule\_e|=0;|smart\_rounding\_f|=0;|order\_netting\_e|=0;|payment\_status\_e|=2;|charge\_code\_e|=0;|hier\_oper nat\_e|=0;  
|bid\_type\_e|=0;|op\_fusion\_rule\_e|=0;|sub\_pos\_nat3\_e|=0;|external\_trade\_f|=0;|lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0;|parent\_oper nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0;|execut\_oper status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;|lock\_nat\_e|=0;|in\_session\_f|=1;"@parameter12=""|compound\_impact\_rule\_e|=0;|op\_split\_rule\_e|=0;|hedge\_trade\_e|=0;|otc\_order\_e|=0;|lock\_sub\_pos\_nat\_e|=0;|id|=4015914027;|corporate\_action\_nature\_e|=0;|revers\_oper nat\_e|=0;|default\_fus\_rule\_e|=0;|commission\_code\_e|=0;|derivative\_ord\_e|=0;  
|execut\_oper nat\_e|=0;|stp\_order\_e|=0;|contract\_length\_unit\_e|=0;|rule\_applicability\_e|=0;|fusion\_rule\_e|=0;|smart\_rounding\_f|=0;|order\_netting\_e|=0;|payment\_status\_e|=2;|charge\_code\_e|=0;|hier\_oper nat\_e|=0;|bid\_type\_e|=0;|op\_fusion\_rule\_e|=0;|sub\_pos\_nat3\_e|=0;|external\_trade\_f|=0;|lock\_sub\_pos\_nat2\_e|=0;|nature\_e|=0;|client\_init\_e|=0;|global\_position\_f|=0;|ex\_coupon\_f|=0;|adj\_sub\_pos\_nat2\_e|=0;|order\_fee\_e|=0;|price\_calc\_rule\_e|=0;|order\_check\_e|=0;|ref\_nat\_e|=0;|target\_nature\_e|=0;|db\_status\_e|=0;|sub\_pos\_nat2\_e|=0;|order\_validity\_nat\_e|=0;|renewal\_length\_unit\_e|=0;|no\_position\_f|=0;|executed\_f|=0;|selected\_f|=0;|event\_action\_e|=0;|lock\_sub\_pos\_nat3\_e|=0;|check\_strat\_e|=0;|adj\_sub\_pos\_nat3\_e|=0;|fx\_rate\_direction\_f|=0;|settle\_status\_e|=2;|right\_to\_run\_f|=0;|confirm\_f|=0;|fact\_sheet\_e|=0;|adj\_nat\_e|=0;|parent\_oper nat\_e|=0;|fusion\_e|=0;|status\_e|=0;|op\_action\_e|=0;|execut\_oper status\_e|=0;|order\_inclusion\_e|=1;|check\_parent\_e|=0;|order\_price\_nat\_e|=0;|payment\_option\_e|=0;|order\_nat\_e|=0;|transaction\_nature\_e|=0;|auto\_renewal\_e|=0;|sub\_pos\_nat\_e|=0;|adj\_sub\_pos\_nat\_e|=0;|renewal\_treatment\_e|=0;|lock\_nat\_e|=0;|in\_session\_f|=1;"  
2024-09-02T13:54:19,374 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC eval\_entity\_with\_collection DELETE(8),@lang\_dict\_id=1,@user\_id=4,@output\_mode=1, @appl\_session\_code='4691c810-5eff-49da-b2b1-72fc9bfcf-2773-4c97-b6fd'  
2024-09-02T13:54:20,820 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | \$sonserial.RpcEntityListFastTransfertOutputDeserializer | Unhandled block returned from Triple'a :CustomDynFld  
2024-09-02T13:54:20,820 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | Result : DELETE(8)  
1 <= ext\_operation , "  
2024-09-02T13:54:20,820 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | msg[0]: Info: [null] Delete succeeded.  
2024-09-02T13:54:20,820 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.BlockAdmin | #EXEC eval\_entity\_with\_collection ,@command\_e=CLOSE(9), @appl\_session\_code='4691c810-5eff-49da-b2b1-72fc9bfcf-2773-4c97-b6fd'  
2024-09-02T13:54:20,824 | DEBUG | advisor | 54Noo-Qwkssrh87jCfIBDKnZYisJ6yp2vahp6NP | 02d9be69-06ba-4074-90eb-d8f56642e4d5 | /wui/activity/aaa/pageflow/ordersession-pageflow-EditingSession/EditingSession/kont/1 | default task-5 | http.FSCallHttp | End block, TripleAService=DELETE

[2024/09/02 13:54:09:229395] ct\_command(v\_syb\_mb1\_aaamaindb,v\_syb\_mb1tasc,4,1,0) Succeed Connect=101809 CsCmd=0x0014d09ce5bf30 Mode=RPC Thread=pid#2195921-tid#2196034 Request="del\_ext\_operation\_by\_id:e# @id=4015914075"

[2024/09/02 13:54:19:365836] ct\_command(v\_syb\_mb1\_aaamaindb,v\_syb\_mb1tasc,4,1,0) Succeed Connect=101809 CsCmd=0x0014d09ce5bf30 Mode=RPC Thread=pid#2195921-tid#2196034 Request="get\_all\_ext\_operation\_by\_id @id=4015914075" ... (ThreadRequest:V\_SYB\_MB1\_S1-pid#2195921-tid#2196034)

[2024/09/02 13:54:19:366603] ct\_command(v\_syb\_mb1\_aaamaindb,v\_syb\_mb1tasc,4,1,0) Succeed Connect=101809 CsCmd=0x0014d09ce5bf30 Mode=LANG Thread=pid#2195921-tid#2196034 Request="rollback tran" ... (ThreadRequest:V\_SYB\_MB1\_S1-pid#2195921-tid#2196034)  
command() - Succeed - Connect=101809 - Request="rollback tran"

```
=====
2024/09/02 13:53:50.774036:V_SYB_MB1_S1 :v_syb_mb1tasc:pid#2195921-tid#2196034(cli) : Start RPC Eval Entity with Collection : cmd = 8, record nbr : 200.
2024/09/02 13:54:19.211426:V_SYB_MB1_S1 :v_syb_mb1tasc:pid#2195921-tid#2196034(cli) : Exit RPC Eval Entity with Collection : cmd = 8.
2024/09/02 13:54:19.222346:V_SYB_MB1_S1 :v_syb_mb1tasc:pid#2195921-tid#2196034(cli) : Start RPC Eval Entity with Collection : cmd = 9, record nbr : 200.
2024/09/02 13:54:19.222527:V_SYB_MB1_S1 :v_syb_mb1tasc:pid#2195921-tid#2196034(cli) : Exit RPC Eval Entity with Collection : cmd = 9.
```

2024/09/02 13:54:19.268407:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Start RPC Eval Entity with Collection : cmd = 8, record nbr : 200.  
2024/09/02 13:54:19.367036:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Exit RPC Eval Entity with Collection : cmd = 8.  
2024/09/02 13:54:19.370983:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Start RPC Eval Entity with Collection : cmd = 9, record nbr : 0.  
2024/09/02 13:54:19.371044:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Exit RPC Eval Entity with Collection : cmd = 9.

2024/09/02 13:54:19.382899:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Start RPC Eval Entity with Collection : cmd = 8, record nbr : 12.  
2024/09/02 13:54:20.819819:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Exit RPC Eval Entity with Collection : cmd = 8.  
2024/09/02 13:54:20.824635:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Start RPC Eval Entity with Collection : cmd = 9, record nbr : 12.  
2024/09/02 13:54:20.824763:V\_SYB\_MB1\_S1 :v\_syb\_mb1tasc:pid#2195921-tid#2196034(cli) : Exit RPC Eval Entity with Collection : cmd = 9.

# TTI Documents, mapping sheets, Trace Files, camel

18 May 2023 15:29

<https://lausvn.temenosgroup.com/svn-devel/documentation/TTI/branches/9.0.0>

## Traces:

\$TTI\_HOME/\*/TTIServer/log

Error.log

Adapter.log

Monitor.log

## Detailed/

```
-rw-rw-r--. 1 modelbank dba 6110 May 22 07:07 20230522_070705_090_45_msgin_TransactionSecurityBuy_4b719404-67e2-413b-94d3-d3b9a10d042c.xml
-rw-rw-r--. 1 modelbank dba 4848 May 22 07:07 20230522_070705_132_48_msgout_TransactionSecurityBuy_4b719404-67e2-413b-94d3-d3b9a10d042c.xml
-rw-rw-r--. 1 modelbank dba 1687 May 22 07:07 20230522_070705_176_45_msgin_TaxLot_b394931d-c6b1-4052-b988-d299b5d88e89.xml
-rw-rw-r--. 1 modelbank dba 1082 May 22 07:07 20230522_070705_205_48_msgout_TaxLot_b394931d-c6b1-4052-b988-d299b5d88e89.xml
-rw-rw-r--. 1 modelbank dba 1687 May 22 07:07 20230522_070705_176_45_msgin_TaxLot_b394931d-c6b1-4052-b988-d299b5d88e89.xml
-rw-rw-r--. 1 modelbank dba 1082 May 22 07:07 20230522_070705_205_48_msgout_TaxLot_b394931d-c6b1-4052-b988-d299b5d88e89.xml
-rw-rw-r--. 1 modelbank dba 3649 May 22 05:30 20230522_053024_543_45_msgin_MultiT24StatusChange_245b7bc7-02d2-4e98-9e9e-81326e5321bb.xml
-rw-rw-r--. 1 modelbank dba 940 May 22 05:30 20230522_053024_549_48_msgout_MultiT24StatusChange_245b7bc7-02d2-4e98-9e9e-81326e5321bb.xml
```

/oams/int\_e2e\_aut/TTI/UTP/TTIServer/config

/oams/int\_e2e\_aut/TTI/UTP/TTIServer/services

Details out the path of the remote folders

=====

/oams/tap\_utp/temenos/TTI/Config/deploy.properties

=====

```
cd /oams/tap_utp/temenos/TTI/Camel/tti-camel-8.0.0/logs
./stop-tti.sh
```

Nohup ./start-tti.sh &

## Not Exists Query

Friday, March 11, 2022 4:04 PM

```
select * from tt_dom_port;
select * from portfolio
inner JOIN tt_dom_port tp on tp.id=portfolio.parent_port_id;
truncate table tt_dom_port;
select id, parent_port_id from portfolio where code='HLA-PO'; --2001

select * from tt_dom_port tp where not exists (select 1 from tt_dom_port tc where tp.id = tc.parent_port_id);
```

Script Output x | Query Result x | Query Result 1 x

SQL | All Rows Fetched: 5 in 0.002 seconds

ID	PORT_POS_SET_ID	HIER_PORT_ID	FUSION_DATE_RULE_E	PARENT_PORT_ID	LEVEL_N	NATURE_E
2001	0	2001	0	(null)	0	0
2002	0	2001	0	2001	1	1
3001	0	2001	0	2001	1	1
4001	0	2001	0	2002	2	1
4002	0	2001	0	4001	3	1

Get all the portfolios which are not parent portfolio id

```
8 | select * from tt_dom_port tp where not exists (select 1 from tt_dom_port tc where tp.id = tc.parent_port_id);
9 |
0 |
```

Script Output x | Query Result x | Query Result 1 x

SQL | All Rows Fetched: 2 in 0.004 seconds

ID	PORT_POS_SET_ID	HIER_PORT_ID	FUSION_DATE_RULE_E	PARENT_PORT_ID	LEVEL_N	NATURE_E
1 3001	0	2001	0	2001	1	1
2 4002	0	2001	0	4001	3	1

## Bit Bucket Commands

Thursday, June 18, 2020 6:09 PM

Git commands

<https://confluence.temenos.com/display/AT/Bitbucket%3A+Multifonds+How-tos>

fetch	downloads the changes from your remote repo but does not apply them to your code
merge	applies changes taken from fetch to a branch on your local repo
pull	which is a combined command that does a fetch and then a merge
upstream	an alias to the original repository URL
origin	origin is a local alias set as a key in place of the remote repository URL.

List/Add the remote as alias 'upstream'

=====

Cloning the branch:

```
>git.exe clone --progress -v "git://code.qt.io/qt/qt5.git" "W:\git\qt"
>git clone -b hotfix/26.10.35 https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git.
>git checkout -b PMSTA-52172
 > git pull origin hotfix/26.10.35
```

If you wish to set tracking information for this branch you can do so with:

```
> git branch --set-upstream-to=origin/hotfix/23.1.12.A18 hotfix/23.1.12.A18
```

/w/TA/29.0.11->**git branch --set-upstream-to origin/29.0.XX 29.0.11**  
branch '29.0.11' set up to track 'origin/29.0.XX'.  
/w/TA/29.0.11->git status  
On branch 29.0.11

/w/TA/29.0.11->**git pull origin/29.0.XX 29.0.11**

=====

To publish local changes to remote branch and pulling all the changes from remote branch:

```
>git push

>git diff-tree -C -r 7d18ded535fc7af0ac1e6c0305adfaf14bd8a26e 4386305a609e3d9790d9a73b0cbeee45c3feefee3f
From <https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/4386305a609e3d9790d9a73b0cbeee45c3feefee3f#triple_a_core/src/dbafmt.c>
>git.exe push --progress "origin" PMSTA-48230:PMSTA-48230
>git.exe push --set-upstream --progress "origin" PMSTA-48230:PMSTA-48230
>git commit -a

>git.exe pull --progress -v --no-rebase "origin"
```

=====

Upstream Management

```
/w/TA/perfbase->git remote -v
origin https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git (fetch)
origin https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git (push)
upstream https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git (fetch)
upstream https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git (push)

/w/TA/perfbase->git remote
origin
upstream

/w/TA/perfbase->git remote add upstream https://bitbucket.temenos.com/scm/tws/ta.git
/w/TA/perfbase-> git remote add origin https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git
```

/w/TA/perfbase->git remote remove upstream

```
 > git remote set-url <REMOTE-NAME> <NEW-URL>
```

```
 > git remote set-url origin https://bngbuckprodlb01.temenos.com/scm/tws/ta.git
```

Rename existing remote before adding new one

```
>git remote rename <old-name> <new-name>
```

```
 > git remote rename origin backup
```

```
 > /w/TA/perfbase->git remote add upstream https://bngbuckprodlb01.temenos.com/scm/tws/ta.git
 /w/TA/perfbase->git remote -v
 origin https://bngbuckprodlb01.temenos.com/scm/tws/ta.git (fetch)
 origin https://bngbuckprodlb01.temenos.com/scm/tws/ta.git (push)
 upstream https://bngbuckprodlb01.temenos.com/scm/tws/ta.git (fetch)
 upstream https://bngbuckprodlb01.temenos.com/scm/tws/ta.git (push)
```

=====

```
/w/TA/clone->git remote -v
origin https://bitbucket.temenos.com/scm/twsdt/clone.git (fetch)
origin https://bitbucket.temenos.com/scm/twsdt/clone.git (push)
/w/TA/clone->git remote remove origin
/w/TA/clone->git remote add origin https://bitbucket.temenos.com/scm/~laxmishhegde/clone.git
```

/w/TA/clone->git remote -v

```
 origin https://bitbucket.temenos.com/scm/~laxmishhegde/clone.git (fetch)
 origin https://bitbucket.temenos.com/scm/~laxmishhegde/clone.git (push)
```

=====

```
 > git push -f origin perfbase - Error due to buffer size
```

```
 > git config http.postBuffer 524288000
```

```
 > git push -f origin perfbase
```

=====

Committing to local branch and pushing to upstream:

```
 > git remote add upstream ssh://git@bitbucket.temenos.com:7999/tws/ta.git
 > git commit -a -m "PMSTA-48803-Crystal dates change to create sub-period Based on NIP for Hierarchy for all the domain dimensions"
 > git push --set-upstream origin PMSTA-48803
 > git push -f origin PMSTA-48803
```

```
 > git checkout feature/27.8.0.performance
```

```

> git branch --set-upstream-to=origin/feature/27.8.0.performance feature/27.8.0.performance
> git pull --force
=====
Commit and push -f to upstream process as part of rebase activities:

/w/TA/perfrepository->git branch --set-upstream-to=origin/feature/27.8.0.performance feature/27.8.0.performance
branch 'feature/27.8.0.performance' set up to track 'origin/feature/27.8.0.performance'.

/w/TA/perfrepository->git commit -a -m "PMSTA-51469 Rebase of develop to 27.8.0.performance"
[feature/27.8.0.performance 75a74264d] PMSTA-51469 Rebase of develop to 27.8.0.performance
7 files changed, 3 insertions(+), 315 deletions(-)

/w/TA/perfrepository->git push -f origin feature/27.8.0.performance
=====

Re-writing history of the commit

Git - Rewriting History \(git-scm.com\)
=====
git diff -C -M cd4cbfd94e00ff565abc00fed2d3fcae09bd2d f9d7f41c28d95d8d0191a84fd8a1d71c4989ecbe -- "triplea_core/src/servdisp.c"

From <https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/f9d7f41c28d95d8d0191a84fd8a1d71c4989ecbe#triplea_core/src/servdisp.c>
=====

Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 565 bytes | 565.00 KiB/s, done.
Total 5 (delta 4), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for PMSTA-52172:
remote: https://bitbucket.temenos.com/users/laxmishhegde/repos/ta/pull-requests?create&sourceBranch=refs%2Fheads%2FPMSTA-52172
remote:
To https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git
 * [new branch] PMSTA-52172 -> PMSTA-52172
branch 'PMSTA-52172' set up to track 'origin/PMSTA-52172'.
=====

To update local changes to remote branch
>git add <file>

To discard changes in the local branch
> git restore <file>

To restore the entire path
>git restore --source=HEAD :/

To restore the local repo from the remote forcefully
> git reset --hard origin/feature/27.8.0.performance

To switch to new local branch starting from current HEAD ,
> git checkout -b $BRANCH
> git checkout branchname
> git checkout tagname

=====
/cygdrive/w/TA/27.8.0.performance->git remote -v
origin \(fetch\)
origin \\(push\\)

To branch to origin/hotfix/27.3.04

Step 1:
/w/TA/27.3.04->git branch -a
develop
* origin/hotfix/27.3.04
remotes/origin/HEAD -> origin/develop
remotes/origin/PMSTA-37932
remotes/origin/PMSTA-37936

Step 2:
/w/TA/27.3.04->git checkout remotes/origin/hotfix/27.3.04
Updating files: 100% \\(716/716\\), done.
Note: switching to 'remotes/origin/hotfix/27.3.04'.

OR

/w/TA/27.0.10->git switch -c remotes/origin/hotfix/27.0.10
Switched to a new branch 'remotes/origin/hotfix/27.0.10'

OR

/w/TA/27.8.0.performance->git switch -c feature/27.8.0.performance
Switched to a new branch 'feature/27.8.0.performance'
/w/TA/27.8.0.performance->git status
On branch feature/27.8.0.performance
nothing to commit, working tree clean
/w/TA/27.8.0.performance->git log -1
commit a734562865ef7e90b2285171793a45dabf1d6d9 \\(HEAD -> feature/27.8.0.performance, origin/feature/27.8.0.performance, origin/feature/27.8.0.performance\\)
Merge: a557d59de 32c691bd
Author: Didier Develey <ddevely@temenos.com>
Date: Wed Feb 16 10:08:54 2022 +0100

OR

/w/TA/27.9.01->git checkout hotfix/27.9.01
Switched to a new branch 'hotfix/27.9.01'.
Branch 'hotfix/27.9.01' set up to track remote branch 'hotfix/27.9.01' from 'origin'.

/w/TA/27.3.04->git status
HEAD detached at origin/hotfix/27.3.04
nothing to commit, working tree clean
/w/TA/27.3.04->git log -1
commit 1521ad839fd2a8e8a575ddcf841e94a32be2587 \\(HEAD, origin/hotfix/27.3.04\\)
Author: Herv Fillebeen <hfillebeen@temenos.com>
Date: Wed Jan 12 18:34:02 2022 +0100

PMSTA-46888 - CLONE - TA 27.3.04 - Order publication fails when released for trading with the 'Group order' function applied

```

```
=====
git.exe pull --progress -v --no-rebase "origin" feature/27.8.0.performance
info: detecting host provider for "https://bitbucket.temenos.com/" ...
info: detecting host provider for "https://bitbucket.temenos.com/" ...
POST git-upload-pack (414 bytes)
From https://bitbucket.temenos.com/scm/~laxmishhegde/ta
 * branch feature/27.8.0.performance -> FETCH_HEAD
 = [up to date] feature/27.8.0.performance -> origin/feature/27.8.0.performance
=====

/w/TA/27.8.0.performance->git pull "origin" feature/27.8.0.performance
info: detecting host provider for "https://bitbucket.temenos.com/" ...
info: detecting host provider for "https://bitbucket.temenos.com/" ...
From https://bitbucket.temenos.com/scm/~laxmishhegde/ta
 * branch feature/27.8.0.performance -> FETCH_HEAD
Already up to date.
=====

git log --follow --all -p triplea_core/src/srvstr1.c
DELETEing the branches
1. git checkout PMSTA-48205
2. git branch -D origin/feature/27.8.0.performance

3. git branch -D feature/27.8.0.performance

4. /w/TA/develop->git branch -D origin/WEALTH-7668 --remote
Deleted remote-tracking branch origin/WEALTH-7668 (was 68c9659cc).

5. =====
Rebase option:

/w/TA/27.8.0.performance->git rebase --onto origin/feature/27.8.0.performance feature/27.8.0.performance
Successfully rebased and updated refs/heads/feature/27.8.0.performance.

/w/TA/27.8.0.performance->git rebase --onto feature/27.8.0.performance PMSTA-48230
Successfully rebased and updated refs/heads/PMSTA-48230.

/w/TA/27.8.0.performance->git status
On branch feature/27.8.0.performance
Your branch is up to date with 'origin/feature/27.8.0.performance'.

nothing to commit, working tree clean
/w/TA/27.8.0.performance->
=====

7. To Checkout/clone single branch

8. git clone -b feature/27.8.0.performance https://bitbucket.temenos.com/scm/tws/ta.git /prod_ref/int/multi-scm/TA/cmake/27.8.0.performance;
git.exe checkout -b feature/27.8.0.performance
=====

To configure and set the windows password
Set git password locally https://snede.net/git-does-not-remember-username-password/

$ git clone https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git .
$ git log or git log -n1
$ git status
$ git tag

$ git checkout hotfix/26.11.0.B01 or git clone --single-branch -b hotfix/26.11.0.B01 https://laxmishhegde@bitbucket.temenos.com/scm/~laxmishhegde/ta.git /w/TA/26.11.0.B01

git lfs install

./triplea_master/thirdparty.sh
./triplea_master submodule.sh

$ git clone --single-branch -b hotfix/27.2.0.A01 https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git .
$ git clone --progress -v "https://bitbucket.temenos.com/scm/~laxmishhegde/ocs.git" "w:\OCS\25.4.09.A01"

$ git lfs install
$ git pull Take the latest commit
$ git branch -av <list all the branches>
=====
$ git init C:\JB\main\workspace\build.TA_27.2.0.AXX_FBD # timeout=10
$ git checkout -f 0131044d3f441cd008e264cd0b77c00840d4ba # timeout=10
$ git branch -a -v --no-abbrev # timeout=10
$ git checkout -b hotfix/27.2.0.A01 0131044d3f441cd008e264cd0b77c00840d4ba # timeout=10

$ git branch -d -r origin/feature/99.0.0.archipoc
Deleted remote-tracking branch origin/feature/99.0.0.archipoc (was 7b75935ae).

To switch to new local branch starting from current HEAD ,
$ git checkout -b $BRANCH
$ git checkout branchname
$ git checkout tagname

To get list of available branches
$ git branch -a

To list all the tags
$ git tag -l

To view logs for branch upto the point at which it was created
$ git log origin/releases/gcc-9 ^origin/master

To rebase automatically with
$ git branch -u origin/master
$ git config branch.$BRANCH.rebase true

To use the git push
$ git push origin $BRANCH:devel/$BRANCH

Merging and Rebasing
$ git merge --squash $BRANCH
=====
```

```

$ git checkout master -switch branch
$ git checkout master~2 Makefile -Take Makefile out of another commit
$ rm -f hello.c
$ git checkout hello.c -restore hello.c from index
$ git checkout -- hello.c

$ git checkout - *.*' - checkout all the *.c files
$ git checkout -545bfe31e69e61b5de644c2d8016a4660492479b
$ git checkout -b develop 545bfe31e69e61b5de644c2d8016a4660492479b

```

#### Stashing local changes: Remove local changes

```

$ git.exe stash push
$ git fetch --progress v "origin" hotfix/25.4.07.A01:remotes/origin/hotfix/25.4.07.A01

```

```

$ git add/rm <file> ..." to update what will be committed)
$ git restore <file> ..." to discard changes in working directory)
 modified: triplea_core/src/genlib.c
 deleted: triplea_ddl/src/strategy_link.psc

```

#### To Restore the original sources use the below command:

```

$ git restore triplea_core/src/dbaserv.c
$ git restore triplea_core/src/genlib.c

```

From <[https://lauicmtemenosgroup.com/view/Builds/view/WS\\_develop/job/build.TA\\_develop\\_FBD/2584/consoleFull](https://lauicmtemenosgroup.com/view/Builds/view/WS_develop/job/build.TA_develop_FBD/2584/consoleFull)>

From <[https://lauicmtemenosgroup.com/view/Builds/view/WS\\_develop/job/build.TA\\_develop\\_FBD/2584/consoleFull](https://lauicmtemenosgroup.com/view/Builds/view/WS_develop/job/build.TA_develop_FBD/2584/consoleFull)>

#### =====

#### Creating empty git repository or re-initialize the existing repository

```

$ git init C:\JB\main\workspace\build.TA_develop_FBD
$ git --version
$ git

```

From <[https://lauicmtemenosgroup.com/view/Builds/view/WS\\_develop/job/build.TA\\_develop\\_FBD/2584/consoleFull](https://lauicmtemenosgroup.com/view/Builds/view/WS_develop/job/build.TA_develop_FBD/2584/consoleFull)>

```
$ git reset --hard origin/feature/99.0.0.archipoc -Forcefully reset to the head
```

```
$ git reset --mixed e97ae878c534632198681a3f8861c498772501f1 --
```

#### =====

#### To check the difference or compare between two commit id

```
git diff-tree -C -r bd9e1ahdsfgrbsgsdekjhg 111esjhgrsfghh
```

```
git diff -C -M 9b6f3b931193f1862ec8d8e75df7611eee259c46 9d6b3f553c726459dbc08c82693733dfee8b730 -- "triplea_core/src/fiperfa1.c"
```

From <[https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/9d6b3f553c726459dbc08c82693733dfee8b730#triplea\\_core/src/fiperfa1.c](https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/9d6b3f553c726459dbc08c82693733dfee8b730#triplea_core/src/fiperfa1.c)>

```
Resetting branch to given commit id
```

```
git.exe reset --hard <commit id> set the branch to the commit id
git reset --hard cb205731ab847538afb8e130ae019f66cc007040
git.exe pull -progress -v --no-rebase "origin"
```

```

git remote -v
git remote add upstream ssh://git@bitbucket.temenos.com:7999/tws/ta.git
List/Create/Switch branch

```

<pre> git branch -av          # list all branch git branch &lt;featureBranch&gt;      # create a branch git checkout &lt;branch&gt;        # switch to a branch git checkout -b &lt;featureBranch&gt;    # create and checkout a new branch git checkout --track remotes/origin/PMSTA-12345  # Create a branch and track it (e.g.on unix) git remote show origin      # detail of the tracking of branch git.exe reset --hard HEAD -- #forcefully merge to local branch remote branch ====  Rebasing the local branch dev_wtx_changes from the feature branch  laxmishhegde@L43SD2X2 MINGW64 /w/TA/26.3.0.wtx (feature/develop_wtx) \$ git checkout dev_wtx_changes Switched to branch 'dev_wtx_changes'  laxmishhegde@L43SD2X2 MINGW64 /w/TA/26.3.0.wtx (dev_wtx_changes) \$ git rebase feature/develop_wtx Successfully rebased and updated refs/heads/dev_wtx_changes. </pre>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Normal work

<pre> git add git commit -m "JIRA-ID" -m "Description ...." git push git log --oneline -20 </pre>
---------------------------------------------------------------------------------------------------

Re-synchro  
solution 1

2

```

git checkout develop
git pull
git checkout <myBranch>
git rebase develop
git log --oneline -20
git push --force
solution 2
(in the featureBranch -> develop is not updated)

```

[?](#)

```

git fetch origin
git log origin/develop --oneline -20 # check the content of upstream as we have a synch between upstream and origin
git rebase origin/develop # reintegrate the upstream changes below the current changes ! Warning develop is not up-to-date
git log --oneline -20 # verify the changes are on the top
git push --force
solution 3
(in the featureBranch -> develop is not updated)

```

[?](#)

```

git pull --rebase origin develop
git push --force

```

in case of uncommitted code during the rebase:

[?](#)

```

git stash # (push command by default) [-u or --include-untracked]
git rebase develop
git stash list
git stash show -p stash@{1} # display the content of a specific stash stack
git stash pop # or git stash apply & git stash clear
Cherry pick

```

[?](#)

```

git checkout -b aNewCleanBranch

git cherry-pick <commitID>
git cherry-pick -X ignore-space-at-eol <commitID>

git log --oneline develop..HEAD
rewrite one or more message

```

[?](#)

```

git filter-branch -f --msg-filter 'sed "s/^/PMSTA-12345 /" develop..HEAD <branchName>'
git commit --amend -m 'PMSTA-12345 New Message'

```

Obtain the date of modification within the repo

[?](#)

```

git reflog --date=local origin/master

```

Undo  
Discard local change to a file

[?](#)

```

git checkout HEAD <file>

```

In case of error return to previous (HEAD-1) commit

[?](#)

```

git reset --hard HEAD~1 # Reset current HEAD to the previous state

```

In case of bigger error return to a previous (HEAD-X) commit

[?](#)

```

git reflog # list the last states
git reset --hard HEAD~X # Reset current HEAD to the specified state

```

Modify the last commit (Don't do this for published commit unless you know what you do)

[?](#)

```

git commit --amend --no-edit
git push --force

```

retrieve your commit in another private repository (e.g unix)

[?](#)

```

git fetch
git rebase --force

```

Branch cleanup  
Delete old branches

[?](#)  
`git fetch --all --prune`  
Delete local branches that have gone remotes

[?](#)  
`git fetch -p`  
for branch in `git branch -vv | grep ': gone]' | awk '{print \$1}'`; do git branch -D \$branch; done  
Delete local branch

[?](#)  
`git branch -d <branchName>`  
Delete remote branch

[?](#)  
`git push origin <branchName>`  
Rename a Branch

[?](#)  
`git branch (-m | -M) [<oldBranch>] <newBranch>`  
Backup/restore using patch

[?](#)  
`git diff --patch origin/develop > /w/patch.patch`  
`git stash show -p stash@{1} > /w/stashed.patch`

[?](#)  
`patch -p1 </w/patch.patch`  
Get a pull request locally

[?](#)  
`git fetch upstream pull-requests/<number>/from`  
`git checkout FETCH_HEAD`  
Reset a specific branch on local and origin from upstream  
Upstream alias must be defined 1st (see above)

[?](#)  
`git fetch upstream <branch>`  
`git reset --hard upstream/<branch>`  
`git push --force`  
Activate execution attribute on a files

[?](#)  
`git update-index --chmod=+x <file.sh>`  
Handling binary files

[?](#)  
`git lfs track my_binary_file`  
Git will then create or update a .gitattributes file, then add it to index.

[?](#)  
`git add .gitattributes`  
Avoid developer to commit a tracked file  
When a file is tracked by git but it is not wanted to commit a modification (e.g a configuration file edited locally or generated – genversion\_git.h)  
do not use .gitignore but skip-worktree.  
To determine the files skipped

[?](#)  
`git ls-files -v | grep --color '^S'`  
set/unset

[?](#)  
`git update-index --skip-worktree <file>`  
`git update-index --no-skip-worktree <file>`  
How to know if where is a commit  
In which tags :

[?](#)  
`git tag --contains <commit-id>`  
In which branches:

[?](#)  
`git branch -a --contains <commit-id>`  
Contains in one branch:

[?](#)  
`git log --oneline <branch> | grep <commit-id>`

From <<https://confluence.temenos.com/display/DEVWIKI/Git+command+line+cheat+sheet>>

====  
Add a new remote, fetch, and check out a branch from it

### Check the remote branches

\$ git remote  
origin  
\$ git branch -r

```

origin/HEAD -> origin/master
origin/master
$ git remote add staging git://git.kernel.org/.../gregkh/staging.git
$ git remote
origin
staging
$ git fetch staging
...
From git://git.kernel.org/pub/scm/linux/kernel/git/gregkh/staging
 * [new branch] master -> staging/master
 * [new branch] staging-linus -> staging/staging-linus
 * [new branch] staging-next -> staging/staging-next
$ git branch -r
origin/HEAD -> origin/master
origin/master
staging/master
staging/staging-linus
staging/staging-next
$ git switch -c staging staging/master

$ mkdir project.git
$ cd project.git
$ git init
$ git remote add -f -t master -m master origin git://example.com/git.git/
$ git merge origin

$ git branch -r
origin/HEAD -> origin/master
origin/master
staging/master
staging/staging-linus
staging/staging-next
$ git switch -c staging staging/master
=====
```

In case pull request is behind follow below steps

1. Go to visual studio. Change the branch to main branch. i.e. hotfix/25.2.0
2. Pull. Top pull link (not incoming or outgoing)
3. Go to explorer folder. Outside the folder, right click. TortoiseGit->Merge
4. Branch option. Select HotFix/25.2.0
5. Change the Branch PMSTA-40639 -> select Push outgoing commits.

Check all the pull requests

1. Repositories -> TA (Temenos Wealth Suite)
2. Click on Pull Requests

```
git diff -C -M 4e03559f9756470c73ccb9ff8d6b783a007167 0275d01850cf62f1691f0a211ff7b281554a0376 -- "triplea_core/src/dbalib03.c"
```

```
git diff -C -M c0eb483c646dc3b84f42bedd48857597a5882fc2ced806f64bc8b9daf12c5dc0cff63c4054175fd -- "triplea_core/src/oitfcntv.c"
```

From <<https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/c2ed806f64bc8b9daf12c5dc0cff63c4054175fd>>

From <[https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/0275d01850cf62f1691f0a211ff7b281554a0376#triplea\\_core/src/dbalib03.c](https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/0275d01850cf62f1691f0a211ff7b281554a0376#triplea_core/src/dbalib03.c)>

```

1 git status
2 PS1='PWD->'
3 git cherry-pick 713ede2ad426726d222ee5c45fe7e2714b971783 (Cherry pick)
4 git push
5 git push --set-upstream origin PMSTA-37953-1
6 exit
7 exit
8 exit
9 git pull --rebase origin hotfix/25.4.07.A01
10 exit
11 git cherry-pick 329aa395d9661764c2d47eede6c0a27387934211
12 git cherry-pick c2ed806f64bc8b9daf12c5dc0cff63c4054175fd
13 git cherry-pick c2ed806f64bc8b9daf12c5dc0cff63c4054175fd
14 git cherry-pick a67bfd0c197bc4a526ddaba55282e73b744ead5a
15 exit
16 git pull --rebase origin hotfix/25.4.07.A01
17 git reset --hard HEAD~1
18 git reset --hard upstream/hotfix/25.4.07.A01
19 git checkout HEAD
20 git pull
21 git checkout HEAD
22 git log
23 git reset --hard HEAD~6
27 git pull --rebase origin hotfix/25.4.07.A01
31 exit
32 git cherry-pick a67bfd0c197bc4a526ddaba55282e73b744ead5a
36 exit
37 git fetch origin
38 git reset --hard origin/hotfix/25.4.07.A01
39 git reset --hard origin/master
40 git reset --hard origin/25.4.07.A01
41 git log
```

#### To Revert the commit Id

```

42 git revert 3a51c2251e22ea8d40995289595fe4f72f7096b4 (revert commit id)
43 git revert -m "Reverting" 3a51c2251e22ea8d40995289595fe4f72f7096b4
44 git revert -m "Reverting" 3a51c2251e22ea8d40995289595fe4f72f7096b4
```

```

45 git reset --hard head~3
46 git pull upstream hotfix/25.4.07.A01
47 git pull upstream hotfix/25.4.07.A01
48 git pull hotfix/25.4.07.A01
49 git fetch upstream hotfix/25.4.07.A01
50 git fetch origin
51 git reset --hard origin/hotfix/25.4.07.A01
52 git clean -f
53 exit
```

54 history

[Checkout from BitBucket and then from svn,](https://confluence.temenos.com/display/DEVWIKI/Git+command+line+cheat+sheet#Gitcommandlinecheatsheet-List>Add the remote alias %27upstream%27 - All the git commands</a></p></div><div data-bbox=)

1. Goto workspace root directory. Say w:\TA\23.0.15
2. mvn -U multi-scm:checkout -DworkspaceDefinitionUrl=file://multi-scm/projects.xml -> It will check out all the folders into root directory.
3. git for-each-ref --format='%(authorname)%09 %(refname)' --sort=authorname | grep -l laxmish -> check all the open brancher in user "Laxmish" name

9. [On your W:\TA, open the git bash terminal](#)

10. Execute the below command

git clone <https://bitbucket.temenos.com/scm/tws/ta.git>

11. Next, execute the below command to **checkout the closed branch (23.1.13.A06)**

git checkout 23.1.13.A06

Use bellow command  
\$ git checkout tags/23.1.13.A06 -b 23.1.13.A06  
\$ git status  
\$ git revert <commit id>  
\$ git revert --abort  
\$ git reset  
\$ git add file <To add new file>

[Remote Branch Deletion](#)

/c/w/TA/26.3.0.wtx->git push origin :feature/develop\_wtx  
To <https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git>

- [deleted] feature/develop\_wtx  
12. git.exe checkout -b feature/develop\_wtx remotes/origin/feature/develop\_wtx --  
Branch 'feature/develop\_wtx' set up to track remote branch 'feature/develop\_wtx' from 'origin'.  
Switched to a new branch 'feature/develop\_wtx'

13. To restore to original branch, use the below command  
git restore . (It restores the original branch)

14. To correct the original upstream use:  
\$ git branch --unset-upstream

15. To push commit id to pull request branch  
\$ git stash /\* clean branch \*/  
\$ git checkout -b <different branch> /\* switch to different branch \*/  
  
\$ git checkout feature /\* switch to pull request branch \*/  
\$ git log  
  
\$ git reset --hard COMMIT\_ID  
  
\$ git push --force /\* force-push to server \*/

16. [Workarea setup](#)

17. dos2unix workarea\_setup.sh

\$ git clone --single-branch -b develop <https://laxmishhegde@bitbucket.temenos.com/scm/~laxmishhegde/ta.git> /w/TA/develop

\$ git clone --progress -v "<https://bitbucket.temenos.com/scm/~laxmishhegde/ocs.git>" "w:\OCS\25.4.09.A01"

```
13:16:36 > git init /data/jws/workspace/Primary2.0/TAP WSC/TAPWscParent # timeout=10
13:16:36 Fetching upstream changes from https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Ansible.git
13:16:36 > git --version # timeout=10
13:16:36 using GIT_ASKPASS to set credentials bit bucket Read only
13:16:36 > git fetch --tags --progress https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Ansible.git +refs/heads/*:refs/remotes/origin/*
13:17:01 Cleaning workspace
13:17:01 JENKINS-19022: warning: possible memory leak due to Git plugin usage; see: https://wiki.jenkins-ci.org/display/JENKINS/Remove+Git+Plugin+BuildsByBranch+BuildData
13:17:01 Checking out Revision d3c06db60a29044fe2e8717298cd54de6bf6 (origin/RBC_WSCMOCK-july21)
13:17:01 > git config remote.origin.url https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Ansible.git # timeout=10
13:17:01 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
13:17:01 > git config remote.origin.url https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Ansible.git # timeout=10
13:17:01 > git rev-parse --verify HEAD # timeout=10
13:17:01 No valid HEAD. Skipping the resetting
13:17:01 > git clean -fdx # timeout=10
13:17:01 Fetching upstream changes from https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Ansible.git
13:17:01 using GIT_ASKPASS to set credentials bit bucket Read only
13:17:01 > git fetch --tags --progress https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Ansible.git +refs/heads/*:refs/remotes/origin/*
13:17:01 > git rev-parse origin/RBC_WSCMOCK-july21{commit}#timeout=10
13:17:01 > git config core.sparsecheckout # timeout=10
13:17:01 > git checkout -f d3c06db60a29044fe2e8717298cd54de6bf6
13:17:20 Commit message: "tap-ocs-jboss.yml edited online with Bitbucket"
13:17:20 > git rev-list --no-walk 3deb1b8acf55b755b0ae7e34f041cc7bb5c43301 # timeout=10

From <http://utpdjcddev.temenosgroup.com:8080/job/Primary2.0/job/TAP%20WSC/job/TAPWscParent/769/console>
13:17:20 > git init /data/jws/workspace/Primary2.0/TAP WSC/TAPWscParent/utp-automation # timeout=10
13:17:20 Fetching upstream changes from https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Automation.git
13:17:20 > git --version # timeout=10
13:17:20 using GIT_ASKPASS to set credentials bit bucket Read only
13:17:20 > git fetch --tags --progress https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Automation.git +refs/heads/*:refs/remotes/origin/*
13:17:30 > git config remote.origin.url https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Automation.git # timeout=10
13:17:30 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
13:17:40 > git config remote.origin.url https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Automation.git # timeout=10
13:17:40 Fetching upstream changes from https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Automation.git
13:17:40 using GIT_ASKPASS to set credentials bit bucket Read only
13:17:40 > git fetch --tags --progress https://bitbucketm01.temenos.com:8443/scm/bitbucket/temutp/UTP-Automation.git +refs/heads/*:refs/remotes/origin/*
13:17:40 Checking out Revision eb97ebdba710e7ec8b5535214fb22841b37c1aeb (origin/master)
13:17:40 > git rev-parse origin/master{commit} # timeout=10
13:17:40 > git config core.sparsecheckout # timeout=10
13:17:40 > git checkout -f eb97ebdba710e7ec8b5535214fb22841b37c1aeb
13:17:58 Commit message: "Merge pull request #288 in TEMUTP/utp-automation from dev to master"
13:17:58 > git rev-list --no-walk eb97ebdba710e7ec8b5535214fb22841b37c1aeb # timeout=10
```

From <<http://utpdjcddev.temenosgroup.com:8080/job/Primary2.0/job/TAP%20WSC/job/TAPWscParent/769/console>>

**Few more bit bucket/git command**

<https://confluence.temenos.com/display/DEVWIKI/Git+command+line+cheat+sheet>

1 . A fresh checkout of the TWS/TA develop branch from BB needs to be done since multi-scm has been made obsolete post migration .

Checkout Instruction for developer : <https://confluence.temenos.com/display/TOOLS/TAP+core+git+-+clone+on+Windows%2C+Linux>

2. Cloning Sub modules to the workspace

- The develop branch under <https://lausvn.temenosgroup.com/svn/devel/products/TA/branches> will no longer be in use from the current version **27.1.0** , hence any further updates that are required in clone and gateway needs to be committed in the BB under the project <https://bitbucket.temenos.com/projects/TWSDT>
- ta\_loader which was available under [https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/ta\\_loader/](https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/ta_loader/) has been migrated to BB under the Project <https://bitbucket.temenos.com/projects/TWSI>
- Checkout of submodule to local : Refer <https://confluence.temenos.com/display/TOOLS/TAP+core+git+-+clone+on+Windows%2C+Linux>

3. Cloning Third-party to the workspace

- The Third-party project <https://lausvn.temenosgroup.com/svn/devel/thirdparty/> will no longer be in use from the current version **27.1.0** , hence any further updates in third parties needs to committed in BB project <https://bitbucket.temenos.com/projects/TWSTP> .
- Here all third parties are aligned as separate repositories with the different versions created as branches respectively .
- Checkout of third party to local : Refer <https://confluence.temenos.com/display/TOOLS/TAP+core+git+-+clone+on+Windows%2C+Linux>

For the automated checkout with one script, download the script from the below jira:

<http://rd.temenosgroup.com/browse/CMT-14039>

If windows does not remember the password, use the below step.

<https://snde.de.net/git-does-not-remember-username-password/>

### /w/TA/27.8.0.performance->git reflog

```
66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) HEAD@{0}: rebase (finish): returning to refs/heads/PMSTA-48230
66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) HEAD@{1}: rebase (start): checkout feature/27.8.0.performance
a2483a62a HEAD@{2}: checkout: moving from feature/27.8.0.performance to PMSTA-48230
66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) HEAD@{3}: pull: Fast-forward
461369e1c HEAD@{4}: checkout: moving from PMSTA-48230 to feature/27.8.0.performance
a2483a62a HEAD@{5}: commit (amend): PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
b78a68289 HEAD@{6}: reset: moving to b78a682893e6995838bc66fb4362280e91ffde6
17cd3d3632 (origin/PMSTA-48230) HEAD@{7}: pull --progress -v --no-rebase origin: Merge made by the 'recursive' strategy.
922c45515 HEAD@{8}: commit (amend): PMSTA-48230 - Review comments.
a2135fa62 HEAD@{9}: commit: PMSTA-48230 - Review comments.
3412b3c4a HEAD@{10}: pull --progress -v --no-rebase origin: Merge made by the 'recursive' strategy.
551a5600e HEAD@{11}: commit (amend): PMSTA-48230 Review comments
e3991577d HEAD@{12}: commit (amend): PMSTA-48230 Review comments.
c48ed5462 HEAD@{13}: commit: PMSTA-48230 Review comments
2cea033e HEAD@{14}: commit: PMSTA-48230 Missed out changes and review comments.
1687478c3 HEAD@{15}: commit: Empty parent portfolio in any hierarchy level handled.
e7d36086e HEAD@{16}: commit: PMSTA-48230 wrong population of end_d when begin_d was NULL when no PCP records corrected.
5959f80b3 HEAD@{17}: commit: PMSTA-48230 Few more scenarios handled.
e237d5554 HEAD@{18}: pull: Merge made by the 'recursive' strategy.
461369e1c HEAD@{19}: rebase (finish): returning to refs/heads/PMSTA-48230
461369e1c HEAD@{20}: rebase (start): checkout feature/27.8.0.performance
86635b444 HEAD@{21}: checkout: moving from feature/27.8.0.performance to PMSTA-48230
461369e1c HEAD@{22}: pull: Fast-forward
7be5a7506 HEAD@{23}: checkout: moving from PMSTA-48230 to feature/27.8.0.performance
86635b444 HEAD@{24}: pull -v --progress origin: Merge made by the 'recursive' strategy.
af5a2b9fa HEAD@{25}: commit (amend): PMSTA-48230 Generated code and initialization
937cc71f4 HEAD@{26}: commit: PMSTA-48230 Generated code and initialization
3902b39c5 HEAD@{27}: commit: PMSTA-48230 More review comments.
b78a68289 HEAD@{28}: commit: PMSTA-48230 Keyword changes GET_PERF_COMP_PERIOD
7be5a7506 HEAD@{29}: checkout: moving from feature/27.8.0.performance to PMSTA-48230
7be5a7506 HEAD@{30}: checkout: moving from develop to feature/27.8.0.performance
9af9daec (develop) HEAD@{31}: clone: from https://bitbucket.temenos.com/scm/laxmishhegde/ta.git
```

### 66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) PMSTA-47578-Rename nature\_e to period\_nature\_e and manage 1 day perf\_calc\_result

```
36fac21d PMSTA-47578-Manage Mid Day Timing Rule and Add nature_e
4d19bfe71 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (move timing to handle logical fus)
461369e1c PMSTA-47578 - Fix Bug in return and MIC
7be5a7506 PMSTA-48227 - Compilation failed for procedure upd_portfolio_perf_first_op_d
990104547 PMSTA-48227 - PERF_BEGIN_DATE Fusion changes get_first_operation date (proc only)
bcfd089b8 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e
19bd66e44 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e
9d6b3t53 PMSTA-47578 - Allow chaining of perf_calc_result
9b6f3b931 PMSTA-47578 - Fix small bug in FIN_AddNIPDates
0a1f7ed3 PMSTA-47578 - Fix crash on portfolio T_AI_PTF1
a580abe1d PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (mainpos timing)
6dc958a04 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (crash and mainpos timing)
fac878f40 PMSTA-47578-Manage not accounted operations
09fe7c2f2 PMSTA-47578-Fix Wrong MeanCap
```

### /w/TA/27.8.0.performance/triplea\_core/src->git reflog

```
66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) HEAD@{0}: rebase (finish): returning to refs/heads/PMSTA-48230
66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) HEAD@{1}: rebase (start): checkout feature/27.8.0.performance
a2483a62a HEAD@{2}: checkout: moving from feature/27.8.0.performance to PMSTA-48230
66841a0a2 (HEAD -> PMSTA-48230, origin/feature/27.8.0.performance, feature/27.8.0.performance) HEAD@{3}: pull: Fast-forward
461369e1c HEAD@{4}: checkout: moving from PMSTA-48230 to feature/27.8.0.performance
a2483a62a HEAD@{5}: commit (amend): PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
b78a68289 HEAD@{6}: reset: moving to b78a682893e6995838bc66fb4362280e91ffde6
17cd3d3632 (origin/PMSTA-48230) HEAD@{7}: pull --progress -v --no-rebase origin: Merge made by the 'recursive' strategy.
922c45515 HEAD@{8}: commit (amend): PMSTA-48230 - Review comments.
a2135fa62 HEAD@{9}: commit: PMSTA-48230 - Review comments.
3412b3c4a HEAD@{10}: pull --progress -v --no-rebase origin: Merge made by the 'recursive' strategy.
551a5600e HEAD@{11}: commit (amend): PMSTA-48230 Review comments
e3991577d HEAD@{12}: commit (amend): PMSTA-48230 Review comments.
c48ed5462 HEAD@{13}: commit: PMSTA-48230 Review comments
2cea033e HEAD@{14}: commit: PMSTA-48230 Missed out changes and review comments.
1687478c3 HEAD@{15}: commit: Empty parent portfolio in any hierarchy level handled.
e7d36086e HEAD@{16}: commit: PMSTA-48230 wrong population of end_d when begin_d was NULL when no PCP records corrected.
5959f80b3 HEAD@{17}: commit: PMSTA-48230 Few more scenarios handled.
e237d5554 HEAD@{18}: pull: Merge made by the 'recursive' strategy.
461369e1c HEAD@{19}: rebase (finish): returning to refs/heads/PMSTA-48230
461369e1c HEAD@{20}: rebase (start): checkout feature/27.8.0.performance
86635b444 HEAD@{21}: checkout: moving from feature/27.8.0.performance to PMSTA-48230
461369e1c HEAD@{22}: pull: Fast-forward
7be5a7506 HEAD@{23}: checkout: moving from PMSTA-48230 to feature/27.8.0.performance
86635b444 HEAD@{24}: pull -v --progress origin: Merge made by the 'recursive' strategy.
af5a2b9fa HEAD@{25}: commit (amend): PMSTA-48230 Generated code and initialization
937cc71f4 HEAD@{26}: commit: PMSTA-48230 Generated code and initialization
3902b39c5 HEAD@{27}: commit: PMSTA-48230 More review comments.
b78a68289 HEAD@{28}: commit: PMSTA-48230 Keyword changes GET_PERF_COMP_PERIOD
7be5a7506 HEAD@{29}: checkout: moving from feature/27.8.0.performance to PMSTA-48230
7be5a7506 HEAD@{30}: checkout: moving from develop to feature/27.8.0.performance
9af9daec (develop) HEAD@{31}: clone: from https://bitbucket.temenos.com/scm/laxmishhegde/ta.git
```

### /w/TA/27.8.0.performance/triplea\_core/src->git reset -hard a2483a62a

HEAD is now at a2483a62a PMSTA-48230 Keyword Changes GET\_PERF\_COMP\_PERIOD.

### /w/TA/27.8.0.performance/triplea\_core/src->git log --oneline -15

```
a2483a62a (HEAD -> PMSTA-48230) PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
7be5a7506 PMSTA-48227 - Compilation failed for procedure upd_portfolio_perf_first_op_d
990104547 PMSTA-48227 - PERF_BEGIN_DATE Fusion changes get_first_operation date (proc only)
bcfd089b8 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (timing update)
19bd66e44 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e
9d6b3t53 PMSTA-47578 - Allow chaining of perf_calc_result
9b6f3b931 PMSTA-47578 - Fix small bug in FIN_AddNIPDates
0a1f7ed3 PMSTA-47578 - Fix crash on portfolio T_AI_PTF1
a580abe1d PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (mainpos timing)
```

```

6dc95a804 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (crash and mainpos timing)
fac878f40 PMSTA-47578-Manage not accounted operations
09fe7c2f2 PMSTA-47578-Fix Wrong MeanCap
2de16587c PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (psc)
34c3331fc PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e
5e7546283 PMSTA-47578-perf_calc_result entity update + new algo for creation + new mean cap using NIP

/w/T/A/27.8.0.performance/triplea_core/src->git log origin/feature/27.8.0.performance --oneline -15
66841a0a2 (origin/feature/27.8.0.performance, feature/27.8.0.performance) PMSTA-47578-Rename nature_e to period_nature_e and manage 1 day perf_calc_result
36fac21d0 PMSTA-47578-Manage Mid Day Timing Rule and Add nature_e
4d19bfe71 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (move timing to handle logical fus)
461369e1c PMSTA-47578 - Fix Bug in return and MIC
7be5a7506 PMSTA-48227 - Compilation failed for procedure upd_portfolio_perf_first_op_d
991014547 PMSTA-48227 - PERF_BEGIN_DATE_RULE Fusion changes get_first_operation date (proc only)
bcfd089b8 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (timing update)
19bd66e44 PMSTA-47578 - Update fusion to set flow_info_e and timing_rule_e
9d6b3f553 PMSTA-47578 - Allow chaining of perf_calc_result
9b6f3b931 PMSTA-47578 - Fix small bug in FIN_AddNIPDates
0a1f7edaa PMSTA-47578 - Fix crash on portfolio T_AI_PT1
a580abe1d PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (mainpos timing)
6dc95a804 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (crash and mainpos timing)
fac878f40 PMSTA-47578-Manage not accounted operations
09fe7c2f2 PMSTA-47578-Fix Wrong MeanCap

```

```

/w/T/A/27.8.0.performance/triplea_core/src->git rebase origin/feature/27.8.0.performance
error: could not apply a2483a62... PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
Resolve all conflicts manually, mark them as resolved with
"git add/rm <conflicting_files>", then run "git rebase --continue".
You can instead skip this commit: run "git rebase --skip".
To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply a2483a62... PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
Auto-merging triplea_core/src/srvperfcalcres.c
Auto-merging triplea_core/src/finsrv11.c
CONFLICT (content): Merge conflict in triplea_core/src/finsrv11.c
Auto-merging triplea_core/src/finlib02.c
CONFLICT (content): Merge conflict in triplea_core/src/finlib02.c
/w/T/A/27.8.0.performance/triplea_core/src->vi triplea_core/src/finsrv11.c

```

```

/w/T/A/27.8.0.performance->vi triplea_core/src/finsrv11.c
/w/T/A/27.8.0.performance->vi triplea_core/src/finlib02.c

```

```

/w/T/A/27.8.0.performance->git add triplea_core/src/finsrv11.c
/w/T/A/27.8.0.performance->git add triplea_core/src/finlib02.c

```

```

/w/T/A/27.8.0.performance->git rebase --continue
[detached HEAD 11e3d68fc] PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
Author: Hegde Laxminish
12 files changed, 577 insertions(+), 138 deletions(-)
create mode 100644 triplea_ddl/src/perf_computation_period.psc
Successfully rebased and updated refs/heads/PMSTA-48230.

```

```

/w/T/A/27.8.0.performance->git log --oneline -15
11e3d68fc (HEAD -> PMSTA-48230) PMSTA-48230 Keyword Changes GET_PERF_COMP_PERIOD.
66841a0a2 (origin/feature/27.8.0.performance, feature/27.8.0.performance) PMSTA-47578-Rename nature_e to period_nature_e and manage 1 day perf_calc_result
36fac21d0 PMSTA-47578-Manage Mid Day Timing Rule and Add nature_e
4d19bfe71 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (move timing to handle logical fus)
461369e1c PMSTA-47578 - Fix Bug in return and MIC
7be5a7506 PMSTA-48227 - Compilation failed for procedure upd_portfolio_perf_first_op_d
991014547 PMSTA-48227 - PERF_BEGIN_DATE_RULE Fusion changes get_first_operation date (proc only)
bcfd089b8 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (timing update)
19bd66e44 PMSTA-47578 - Update fusion to set flow_info_e and timing_rule_e
9d6b3f553 PMSTA-47578 - Allow chaining of perf_calc_result
9b6f3b931 PMSTA-47578 - Fix small bug in FIN_AddNIPDates
0a1f7edaa PMSTA-47578 - Fix crash on portfolio T_AI_PT1
a580abe1d PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (mainpos timing)
6dc95a804 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (crash and mainpos timing)
fac878f40 PMSTA-47578-Manage not accounted operations

```

```

/w/T/A/27.8.0.performance->git push -force
info: detecting host provider for "https://bitbucket.temenos.com/"...
info: detecting host provider for "https://bitbucket.temenos.com/"...
Enumerating objects: 44, done.
Counting objects: 100% (44/44), done.
Delta compression using up to 12 threads
Compressing objects: 100% (23/23), done.
Writing objects: 100% (23/23), 6.65 KiB | 567.00 KiB/s, done.
Total 23 (delta 19), reused 0 (delta 0), pack-reused 0
remote:
remote: View pull request for PMSTA-48230 => feature/27.8.0.performance:
remote: https://bitbucket.temenos.com/projects/TWS/repos/ta/pull-requests/3517
remote:
To https://bitbucket.temenos.com/scm/laxminishhegde/ta.git
+ 17c2d3632...11e3d68fc PMSTA-48230 -> PMSTA-48230 (forced update)

```

```

git push -force removes all the reverted commits in the remote branch.
git pull -force - Overrides anything locally.
git fetch -force - Overrides local changes.

```

```

While merging lots changes, delete and checkout entire branch:
>git checkout PMSTA-48230
>git branch -D feature/27.8.0.performance
>git fetch
>git checkout feature/27.8.0.performance
/w/T/A/27.8.0.performance->git log --oneline -10
58474092d (HEAD -> feature/27.8.0.performance, origin/feature/27.8.0.performance) PMSTA-47578 - Fix rebase issues.
53b8120fa PMSTA-47578-Rename nature_e to period_nature_e and manage 1 day perf_calc_result
ddfb6c93 PMSTA-47578-Manage Mid Day Timing Rule and Add nature_e
91c36b29d PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (move timing to handle logical fus)
fce8d94a PMSTA-47578 - Fix Bug in return and MIC
34788b823 PMSTA-48227 - Compilation failed for procedure upd_portfolio_perf_first_op_d
e6da1410c PMSTA-48227 - PERF_BEGIN_DATE_RULE Fusion changes get_first_operation date (proc only)
fd2c935e2 PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e (timing update)
dbbcd6a4b PMSTA-47582 - Update fusion to set flow_info_e and timing_rule_e
db854b153 PMSTA-47578 - Allow chaining of perf_calc_result
=====
```

#### Unix Checkout with user id hla

Login to laulkcm2 with hla login using git bash

```
/prod_ref/users/hla/TA/27.8.0.performance->git clone https://bitbucket.temenos.com/scm/~laxmishhedge/ta.git
Cloning into 'ta'...
Username for 'https://bitbucket.temenos.com': laxmishhedge
Password for 'https://laxmishhedge@bitbucket.temenos.com':
remote: Enumerating objects: 123043, done.
remote: Counting objects: 100% (123043/123043), done.
remote: Compressing objects: 100% (21620/21620), done.
remote: Total 123043 (delta 101151), reused 122619 (delta 100859)
Receiving objects: 100% (123043/123043), 165.35 MiB | 27.62 MiB/s, done.
Resolving deltas: 100% (101151/101151), done.
Checking out files: 100% (7580/7580), done.
/prod_ref/users/hla/TA/27.8.0.performance->
```

```
=====
/prod_ref/users/hla/TA/27.8.0.performance->git checkout feature/27.8.0.performance
Branch feature/27.8.0.performance set up to track remote branch feature/27.8.0.performance from origin.
Switched to a new branch 'feature/27.8.0.performance'
```

<https://confluence.temenos.com/display/TOOLS/TAP+core+git++clone+on+Windows%2C+Linux>

#### Get list of all files that changed between two git commands

1. git diff --name-only <starting commit id> HEAD

```
/w/TA/27.8.0.performance->git diff --name-only 67c9215c7 HEAD
triplea_core/dyndef/gen/mac_perf_storage_param.h
triplea_core/dyndef/gen/md_perf_calc_result.c
triplea_core/dyndef/gen/md_perf_calc_result.h
triplea_core/dyndef/gen/md_perf_storage_param.c
triplea_core/dyndef/gen/md_perf_storage_param.h
```

```
/w/TA/27.8.0.performance->git diff --name-only 91c36b29d fcee8d94a
triplea_core/src/fusengin.c
triplea_core/src/ope.h
triplea_core/src/opeilib.c
triplea_core/src/opeilib02.c
```

2. To list all unstaged tracked changed files are:

>git diff --name-only

3. To list all staged tracked changed files:

>git diff --name-only --staged

4. To list all non-staged files

> git ls-files --other --modified --exclude-standard

5. To list of the files only Added (A), Modified (M)

>git diff --name-only --diff-filter=AM <from\_commit\_hash><to\_commit\_hash>

--diff-filter=[(A|C|D|M|R|T|U|X|B)...[\*]]

6. To list the status as well (A/M) --name-only to --name-status

>git diff --name-status --diff-filter=AM <from\_commit\_hash><to\_commit\_hash>

7. >git show --name-only <commit\_id\_A> .. <commit\_id\_B>

8. List of unstaged modified can be using git status

>git status -s

9. Rebasing steps:

git fetch

git checkout origin/PMSTA-48226

git rebase origin/feature/27.8.0.performance

git push origin --force-with-lease=PMSTA-48226:origin/PMSTA-48226 HEAD:refs/heads/PMSTA-48226

#### 10. Restoring from the staged sources

git restore --staged <file> to un-stage

git restore <file> to discard changes in working directory

From <<https://bitbucket.temenos.com/projects/TWS/repos/ta/pull-requests/4492/commits>>

#### 1. To show all the changes in branch

>git show --all

```
commit fe00602d9e8fa3928d446fbef71c01efedf24cc5 (origin/develop, origin/HEAD, develop)
Author: Chetana Mahale <chetana.mahale@temenos.com>
Date: Fri Jul 15 15:37:14 2022 +0530
```

WSC-28373 : Certificate based authentication for Technical Users (WSC part) -refactored the try block.

```
diff --git a/integration/tcib-installer/src/main/java/com/temenos/installer/job/PasswordEncoder.java b/integration/tcib-installer/src/main/java/com/temenos/installer/job/PasswordEncoder.java
index 8e9d43db01..daf48a9dc2 100644
-- a/integration/tcib-installer/src/main/java/com/temenos/installer/job/PasswordEncoder.java
+++ b/integration/tcib-installer/src/main/java/com/temenos/installer/job/PasswordEncoder.java
@@ -21,7 +21,6 @@ import com.temenos.password.codec.impl.PasswordCodec;
import com.temenos.password.codec.impl.RandomFileValidator;
import com.temenos.password.constant.Constants;
```

```
- /**
 * This class represents password encryption during WSC installation.
 *
@@ -37,36 +36,34 @@ public class PasswordEncrypt extends AbstractJavaJob {
 public void execute(Wizard wizard, Properties contextProperties, Properties scriptProperties,
 ScriptExecutionContext scriptExecutionContext) throws ScriptException {
 String passwordFlag = scriptProperties.getProperty(Constants.IGNORE_DSF_PWDS);
- try {
- if (contextProperties.keySet() != null) {
- String randomDataFile = contextProperties.getProperty(Constants.DSF + Constants.RANDOM_DATA_FILE_PATH);
+ if (contextProperties.keySet() != null) {
+ String passwordFlag = scriptProperties.getProperty(Constants.IGNORE_DSF_PWDS);
+ String randomDataFile = contextProperties.getProperty(Constants.DSF + Constants.RANDOM_DATA_FILE_PATH);
```

```

- if (randomDataFile != null && !randomDataFile.isEmpty()) {
- try {
- RandomFileValidator.validateRandomFile(randomDataFile);
- }
-
```

**Ignore all the local changes and reset to origin:**

```
/w/TA/27.8.0.performance->git reset --hard origin/feature/27.8.0.performance
Updating files: 100% (3078/3078), done.
HEAD is now at 2609abdc8 PMSTA-48078 - perf_calc_result & perf_storage_param entity changes
```

## Deployment of the Patch

### Patching the file:

```
> git diff --patch origin ioitfcntv.c > lax.patch
```

### Restoring the file:

```
/w/TA/27.8.0.performance/triplea_core/src->patch -p1 < ../../PMSTA-49905.patch
```

can't find file to patch at input line 5

Perhaps you used the wrong -p or --strip option?

The text leading up to this was:

```
-----git a/triplea_core/src/ioitfcntv.c b/triplea_core/src/ioitfcntv.c
index 545cb85523e48ee00d54fb15a8fb602dc5ecf0..d808f9c812a9eb9f40d37dc50311b4a8dec729a0 100644
--- a/triplea_core/src/ioitfcntv.c
+++ b/triplea_core/src/ioitfcntv.c

```

File to patch: ioitfcntv.c

patching file ioitfcntv.c

Hunk #1 succeeded at 12830 (offset 85 lines).

Hunk #2 succeeded at 12946 (offset 85 lines).

### Multiple commits to be put in single commit by reset:

1. git reset --soft HEAD~2
2. git status
3. git commit -m "PMSTA-48226 - Incorporated code review comments"
4. git push -f origin PMSTA-48226
5. git reset --mixed e97ae878c534632198681a3f8861c498772501f1 ..

### Add upstream: Upstream must be done whenever there is clone/fork is done:

```
1 > git remote add upstream ssh://git@bitbucket.temenos.com:7999/tws/ta.git
```

<https://confluence.temenos.com/display/DEVWIKI/Git+command+line+cheat+sheet>

### Create stash on modify files:

```
>git.exe stash push -m "perfrbace_16012022"
```

### User Configuration:

```
>git config --global user.email "laxmishhegde@temenos.com"
```

```
>git config --global user.name "laxmishhegde"
```

```
=====
```

```
/w/TA/23.1.12.A17->git pull origin hotfix/23.1.12.A17
From https://bitbucket.temenos.com/scm/tws/ta
 * tag hotfix/23.1.12.A17 -> FETCH_HEAD
Already up to date.
```

```
/w/TA/23.1.12.A17->git reset --soft HEAD
```

### Checking out submodule in linux

```
/prod_ref/users/hla/TA/23.1.12.A17->git pull origin hotfix/23.1.12.A17 --recurse-submodules
From https://bitbucket.temenos.com/scm/tws/ta
 * tag hotfix/23.1.12.A17 -> FETCH_HEAD
Already up-to-date.
```

```
/prod_ref/users/hla/TA/23.1.12.A17->git submodule --quiet sync --recursive .
```

```
/w/TA/23.1.12.A17->./triplea_master/submodule.sh
#####
Git Submodule update
/w/TA/23.1.12.A17
From https://bitbucket.temenos.com/scm/tws/ta
 * tag hotfix/23.1.12.A17 -> FETCH_HEAD
Already up to date.
Submodule 'open_client' (https://bitbucket.temenos.com/scm/twstp/sybase_open_client.git) registered for path 'open_client'
Submodule 'ta_loader' (https://bitbucket.temenos.com/scm/twsi/taloder.git) registered for path 'ta_loader'
Cloning into 'C:/w/TA/23.1.12.A17/open_client'...
remote: Enumerating objects: 1601, done.
remote: Counting objects: 100% (1601/1601), done.
remote: Compressing objects: 100% (568/568), done.
remote: Total 1601 (delta 1028), reused 1598 (delta 1028), pack-reused 0
Receiving objects: 100% (1601/1601), 8.83 MiB | 1.00 MiB/s, done.
Resolving deltas: 100% (1028/1028), done.
Cloning into 'C:/w/TA/23.1.12.A17/ta_loader'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.
Submodule path 'open_client': checked out '185e2ca46040e49b2e37457b60231f68365bfe8b'
Submodule path 'ta_loader': checked out '533593a6d6a809e63fa08713eb32bdea6462366'
#####
End #####
```

```
git diff-tree -C -r 7d18ded535fc7af0ac1e6c0305adfaf14bd8a26e 4386305a609e3d9790d9a73b0cbeee45c3efee3f
```

From <[https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/4386305a609e3d9790d9a73b0cbeee45c3efee3f#triplea\\_core/src/dbafmt.c](https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/4386305a609e3d9790d9a73b0cbeee45c3efee3f#triplea_core/src/dbafmt.c)>

```
git diff-tree -C -r 7d18ded535fc7af0ac1e6c0305adfaf14bd8a26e 4386305a609e3d9790d9a73b0cbeee45c3efee3f
```

From <[https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/4386305a609e3d9790d9a73b0cbeee45c3efee3f#triplea\\_core/src/dbafmt.c](https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/4386305a609e3d9790d9a73b0cbeee45c3efee3f#triplea_core/src/dbafmt.c)>

```
git diff-tree -C -r 7d18ded535fc7af0ac1e6c0305adf14bd8a26e 4386305a609e3d9790d9a73b0cbeee45c3efee3f
```

```
From <https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/4386305a609e3d9790d9a73b0cbeee45c3efee3f#triplea_core/src/dbafmtc>
```

```
/w/TA/develop->git add triplea_outbox/java/outbox-server/src/main/java/com/temenos/triplea/outbox/camel/CloudEventEncapsulationProcess.java
/w/TA/develop->git commit -n "WEALTH-7227-source and time in the header needs to be consistent"
[WEALTH-7227 39b578122] WEALTH-7227-source and time in the header needs to be consistent
1 file changed, 1 insertion(+), 1 deletion(-)
/w/TA/develop->git push --set-upstream origin WEALTH-7227
Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 12 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (14/14), 977 bytes | 57.00 KiB/s, done.
Total 14 (delta 5), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for WEALTH-7227:
remote: https://bitbucket.temenos.com/users/laxmishegde/repos/ta/pull-requests?create&sourceBranch=refs%2Fheads%2FWEALTH-7227
remote:
To https://bitbucket.temenos.com/scm/~laxmishegde/ta.git
 1cce495f8..39b578122 WEALTH-7227 -> WEALTH-7227
branch 'WEALTH-7227' set up to track 'origin/WEALTH-7227'.
```

Check the history of the file on the command prompt

```
/w/TA/develop->gitk triplea_ddl/md/std/1506_event_status.imp
```

gitk --no-diff --all -- triplea\_ddl/md/std/1506\_event\_status.imp

SHA1 ID: f59f4ca066e390fa9600c8617edf216a548d0b16

Find  containing:

Search  Diff  Old version  New version Lines of context: 3  Ignore space change Line diff

Comments: triplea\_ddl/md/std/1506\_event\_status.imp

Author: Meghala Kannan <k.meghala@temenos.com> 2024-04-22 10:48:15  
Commiter: Meghala Kannan <k.meghala@temenos.com> 2024-05-13 17:30:39  
Parent: [3a8345f5c5ff3bfc411b14bf6f6597a65113eafa](#) (Full request #5146: PMSTA-51780 - Copyright statement modification for 2023 - 1st commit)  
Branches: develop, remotes/origin/develop  
Follows: WEALTH-SECONDARY-2024.05.07-02-1751  
Precedes:

PMSTA-55872- CLONE - TA 202406.0.9 - The GUI does not display the latest event and event status.

index fa9842bb7..355dcf1f8 100644

00 ..-246,12 +246,12 @@ REM \*\*\*\*

CMD UPDATE xd\_attribute

ATT xd\_entity\_id,sqlname\_c,sqlname\_c\_short\_index\_n,short\_disp\_rank\_n,fk\_index\_n,sorting\_rank\_n,sorting\_rule\_e

DAT event\_status\_id;0;0;;1;

-DAT event\_status;action\_e;1;3;;1;

-DAT event\_status;request\_status\_e;2;4;;4;1;

-DAT event\_status;creation\_dj;3;5;;5;1;

+DAT event\_status;action\_e;1;3;;1;

+DAT event\_status;request\_status\_e;2;4;;5;1;

+DAT event\_status;creation\_dj;3;5;;5;1;

+DAT event\_status;creation\_user\_e;6;6;;1;

-DAT event\_status;entity\_sqlname\_c;5;1;;1;

-DAT event\_status;object\_code\_e;2;2;;1;

+DAT event\_status;entity\_sqlname\_c;5;1;;1;

+DAT event\_status;object\_code\_e;2;2;;1;

DAT event\_status;subscription\_c;7;;1;

DAT event\_status;subscription\_c;7;;1;

PMSTA-55872- CLONE - TA 202406.0.9 - The GUI does not display the latest event and event status.

commit f59f4ca066e390fa9600c8617edf216a548d0b16

Author: Meghala Kannan <k.meghala@temenos.com>  
Date: Mon Apr 22 10:48:15 2024 +0530

PMSTA-55821 - The GUI does not display the latest event and event status.

commit 44b4c74380b36ab42b0f75de7f1458355bda079c

Author: Meghala Kannan <k.meghala@temenos.com>  
Date: Mon Apr 22 10:48:15 2024 +0530

PMSTA-51469 - Rebase of develop to 27.8.0-performance.

To remove all the untracked files and directory.

/w/OCS/develop->git add --all or git add .

/w/OCS/develop->git reset --hard HEAD

Updating files: 100% (4287/4287), done.  
HEAD is now at c1b4f2c8a9 WEALTH-9444 OData must implements basic retry pattern on SQL calls

/w/OCS/develop->git status

On branch develop

Your branch is up to date with 'origin/develop'.

nothing to commit, working tree clean

/w/OCS/develop->

If untracked directory is a git repository of its own, need to use -f twice

>git clean -d -f -f

>git clean -fdx

>git clean -fxd {directory path}

>git clean -ffd

```
>git clean -fdXx
>git clean -i -fd

DIFF commands
git diff [<options>] <commit> <commit> [-] [<path>...]
For instance, to see the difference for a file "main.c" between now and two commits back, here are three equivalent commands:
$ git diff HEAD^^ HEAD main.c
$ git diff HEAD^^..HEAD -- main.c
$ git diff HEAD~2 HEAD -- main.c

From <https://stackoverflow.com/questions/3338126/how-do-i-diff-the-same-file-between-two-different-commits-on-the-same-branch>

Example: Comparing a file from its last commit to its previous commit on the same branch: Assuming that if you are in your project root folder
$git difftool HEAD:src/main/java/com.xyz.test/MyApp.java HEAD^:src/main/java/com.xyz.test/MyApp.java

From <https://stackoverflow.com/questions/3338126/how-do-i-diff-the-same-file-between-two-different-commits-on-the-same-branch>

If you want to see all changes to the file between the two commits on a commit-by-commit basis, you can also do
$git log -u $start_commit..$end_commit -- path/to/file

From <https://stackoverflow.com/questions/3338126/how-do-i-diff-the-same-file-between-two-different-commits-on-the-same-branch>

$git diff 5cc287:pom.xml e8e420:pom.xml
$git diff 3aa914:pom.xml 7476e1:pom.xml
$git diff 422bfd:pom.xml f92ad8:pom.xml
```

## Sybase - extraction and loading database - clone

04 June 2023 19:33

```
set chained off
go
if exists (select 1 from master..sysdatabases where name='@aaamaindb@')
begin
drop database @aaamaindb@
end
go
=====
set chained off
go
if not exists (select 1 from master..sysdevices where name = '@env_name @_datalog1')
begin
disk init name='@env_name @_datalog1', physname='@pathdevices@/@env_name @_datalog1.dat', size='2500.000M',dsync='false'
end
go
=====
create database @aaamaindb@ on @env_name @_datalog3 = '2000M' with override for load
go
alter database @aaamaindb@ log on @env_name @_datalog5 = '1200M' with override for load
go
=====
dump database aaamaindb to 'compress::1::/oams/CIP_LX_SYB_AUT3/aaa/lax/data/aaamaindb.1.dmp'
stripe on 'compress::1::/oams/CIP_LX_SYB_AUT3/aaa/lax/data/aaamaindb.2.dmp'
go
=====
load database @aaamaindb@ from 'compress::1:@pathdumps@/aaamaindb.1.dmp'
stripe on 'compress::1:@pathdumps@/aaamaindb.2.dmp'
go
=====
If (SELECT count(*) FROM model.dbo.systypes T, model.dbo.systypes PHY WHERE PHY.usertype =(SELECT min(usertype) FROM model.dbo.systypes WHERE type = T.type)
AND T.type = PHY.type AND T.usertype >= 100) = 0 load database model from 'compress::1:@pathdumps@/model.dmp'
go
=====
```

To extract the DB in online mode modify the script as below:

**prepare\_clone\_db\_template.sh**

```
checkSybase
initCloneDir
initLogFileMgt
#readOnlyOn #####comment out
dumpDB
#readOnlyOff #####comment out
setup_map_table
extractDataInitDisk
extractDataCreateDB
bcpSystemTables
copySybaseFiles
```

## Bitbucket - file level commands

21 May 2023 12:57

Finding the history of the changes in a given file:

```
cmd> git log --follow --all -p triplea_core/src/srvstra1.c
```

```
commit 8a4c9e83368df5a1d5e865b2e7875d61ab7a71c1
Author: vishnuprasadpr <vishnuprasadpr@temenos.com>
Date: Sat May 20 17:45:35 2023 +0530
```

```
PMSTA-53214 disabling BCP mode for risk tables since DB commit not happening on call DBA_EndConnection in bcp mode

diff --git a/triplea_core/src/srvstra1.c b/triplea_core/src/srvstra1.c
index 2eb05d286..02b7caa9e 100644
--- a/triplea_core/src/srvstra1.c
+++ b/triplea_core/src/srvstra1.c
@@ -6778,6 +6778,8 @@ STATIC RET_CODE FIN_CheckStrat(DBA_HIER_HEAD_STP stratHierHead, DBA_DYNFLD_STP d
{
 riskBCPFlg = TRUE;
}
+ /*PMSTA-53214 disabling BCP mode for risk tables since DB commit not happening on call DBA_EndConnection in bc
p mode. Temporary fix till BCP issue is resolved*/
+ riskBCPFlg = FALSE;

/*PMSTA-41663-Kramadevi-29092020:*/
if (DomainCashRealignMethodEn::NetOfAllAssets == static_cast<DomainCashRealignMethodEn>GET_ENUM(domainPtr, A_Doma
in_CashRealignMethodEn) ||
@@ -7546,14 +7548,9 @@ STATIC RET_CODE FIN_CheckStrat(DBA_HIER_HEAD_STP stratHierHead, DBA_DYNFLD_STP d
connectNo_For_BcpESE = DBA_GetConnection(SqlServer);
 if (riskBCPFlg == TRUE)
 {
 //connectNo_For_BcpRSE = DBA_GetConnection(SqlServer);
-
```

```
cmd> gitk --follow --all -p triplea_core/src/srvstra1.c
```

SHA1 ID: 8a4c9e83368df5a1d5e865b2e7875d61ab7a71c1

Find  containing:

Search

Diff  Old version  New version Lines of context:   Ignore space change Line diff  Patch  Tree

Author: vishnuprasadpr <vishnuprasadpr@temenos.com> 2023-05-20 17:45:35  
Committer: vishnuprasadpr <vishnuprasadpr@temenos.com> 2023-05-20 17:45:35  
Parent: 21f1c8e921cab75ca36d42121d1a09f472a6174 (PMSTA-53211 - Regression:TA upgrade failing in sybase environment WSC31248)  
Branches: release/29.0.0, remotes/origin/release/29.0.0  
Follows: WEALTH-SECUNDARY-2023.05.06-02-1363  
Precedes:

PMSTA-53214 disabling BCP mode for risk tables since DB commit not happening on call DBA\_EndConnection in bcp mode

```
triplea_core/src/srvstra1.c
index 2eb05d286..02b7caa9e 100644
@@ -6778,6 +6778,8 @@ STATIC RET_CODE FIN_CheckStrat(DBA_HIER_HEAD_STP stratHierHead, DBA_DYNFLD_STP d
{
 riskBCPFlg = TRUE;
}
+ /*PMSTA-53214 disabling BCP mode for risk tables since DB commit not happening on call DBA_EndConnection in bc
p mode. Temporary fix till BCP issue is resolved*/
+ riskBCPFlg = FALSE;

/*PMSTA-41663-Kramadevi-29092020:*/
if (DomainCashRealignMethodEn::NetOfAllAssets == static_cast<DomainCashRealignMethodEn>GET_ENUM(domainPtr, A_Doma
in_CashRealignMethodEn) ||
@@ -7546,14 +7548,9 @@ STATIC RET_CODE FIN_CheckStrat(DBA_HIER_HEAD_STP stratHierHead, DBA_DYNFLD_STP d
connectNo_For_BcpESE = DBA_GetConnection(SqlServer);
 if (riskBCPFlg == TRUE)
 {
 //connectNo_For_BcpRSE = DBA_GetConnection(SqlServer);
-
```

```
cmd> tig --follow --all -p dir/file.c
```

2023-05-20 17:45 +0530 vishnuprasadpr	PMSTA-53214 disabling BCP mode for risk tables since DB commi PMSTA-53164 Portfolio Builder - Amendments PMSTA-52957: Portfolio_Builder-Amendment - System should dis PMSTA-53112 Portfolio_Builder-Amendment - Error message shou WEALTH-431 introducing new data type PRICE_T along with migra PMSTA-53096 CLONE - TA 29.1.0 - Portfolio Builder - Amendment PMSTA-52957: Portfolio_Builder-Amendment - System should disp Epic WEALTH-55 / Task WEALTH-233 / KD_24796 Equity Hedging_De WEALTH-147 - committed all macro changes wrt price_t datatype WEALTH-295 merge with develop Epic WEALTH-55 / Task WEALTH-59 / Mirabud Rebase with Develop <hotfix/25.8.08> PMSTA-45324 - CLONE - TA 25.8.08 - Financial PMSTA-39939 -CLONE - TA 25.8.03 - Financial Server Crash - Al PMSTA-51638 - R22 AMR MSSQL TA: Same compliance cases are get PMSTA-48745 - CLONE - TA 27.3.07 - Allocate Order : System sl PMSTA-50607 - Data not inserted into aaareadb while running T PMSTA-51476 - Fix wrong Sales and Purchases counters. PMSTA-51476-Improve CheckStrat and fusion for SubNat_FXFwd_Tw PMSTA-50493 - Performance issue in Format analysis in View ta PMSTA-52867 Portfolio Builder - Amendments - When amending MV PMSTA-53023-Portfolio Builder - Amendments - Error message is PMSTA-52707-User should not be able to edit the quantity of B PMSTA-52761 BCP mode commit issue fixed PMSTA-52845-The negative cash messages to compute the correct PMSTA-52871 Portfolio_Builder-Amendment- Security-In constra
2023-05-18 18:30 +0530 s.satyaranayana	
2023-05-18 14:13 +0200 Ravindra Dhabadi	
2023-05-17 13:01 +0530 s.satyaranayana	
2023-05-17 00:28 +0530 vishnuprasadpr	
2023-05-12 11:54 +0530 s.satyaranayana	
2023-05-12 13:55 +0200 Ravindra Dhabadi	
2023-05-12 19:54 +0200 Deepthi Nair	
2023-05-05 12:59 +0200 Savitha Basavaraj Maganahalli	
2023-04-24 13:31 +0530 vishnuprasadpr	
2023-04-17 12:30 +0530 Kritesh Kumar Mudgal	
2021-06-03 16:49 +0200 Krishna Chaitanya Kamley	
2020-05-07 09:22 +0200 Mothilal Periyar	
2023-01-10 17:47 +0100 Lionel Jeanbourquin	
2022-04-11 10:55 +0530 Suparna M	
2022-12-05 16:37 +0530 Aakash Tripathi	
2023-01-27 17:51 +0100 Didier Develey	
2023-01-12 18:16 +0100 Didier Develey	
2022-12-12 11:05 +0530 Prashant Jha	
2023-05-12 11:54 +0530 s.satyaranayana	
2023-05-11 13:15 +0530 chandrasekar.rajah	
2023-05-08 17:44 +0530 chandrasekar.rajah	
2023-05-08 23:42 +0530 vishnuprasadpr	
2023-05-03 16:17 +0530 chandrasekar.rajah	
2023-05-03 14:16 +0530 s.satyaranayana	

[main] 8a4c9e83368df5a1d5e865b2e7875d61ab7a71c1 - commit 1 of 486

From <<https://stackoverflow.com/questions/278192/view-the-change-history-of-a-file-using-git-versioning>>

5%

cmd> git rev-list HEAD --oneline triplea\_core/src/srvstra1.c

```
/w/TA/Rel-29.0.0->git rev-list HEAD --oneline triplea_core/src/srvstra1.c
8a4c9e833 PMSTA-53214 disabling BCP mode for risk tables since DB commit not happening on call
8a4c9e833 PMSTA-53164 Portfolio Builder - Amendments
4de581d7 PMSTA-53164 Portfolio Builder - Amendments
c6572a958 PMSTA-52957: Portfolio_Builder-Amendment - System should display correct odd lot
Warning Message
3d449c16b PMSTA-52867 Portfolio Builder - Amendments - When amending MV%, for a Sub model
order is not generating.
f5f007ab9 PMSTA-53023-Portfolio Builder - Amendments - Error message is displayed instead of
warning message Fixed
c2e61680d PMSTA-52707-User should not be able to edit the quantity of Blacklisted Instrument fixed
fa239e94c PMSTA-52761 BCP mode commit issue fixed
68f647c46 PMSTA-52845-The negative cash messages to compute the correct achievable market value
and skip odd lot message fixed
e11d4114a PMSTA-52871 Portfolio_Builder-Amendment- Security-In constraint with Min and Max
Quantity is not working
ac637b7fd PMSTA-52986 Portfolio_Builder-Amendment- System generates a zero quantity sell order
3b9d5de4d PMSTA-52707-Previous Order getting deleted in case of blacklist check fixed
af1103b7f PMSTA-52958 Portfolio_Builder-Amendment-Locking type Locking with Sell is not working
881398895 PMSTA-52865-Smart Rounding -Multiple Amendments to the Market Value returns wrong
values fixed
4feb85c5c PMSTA-52945:Portfolio_Builder-Amendment - Unable to sell the complete positions
d5d180a3d PMSTA-52845-NegCash Function Build Error Fixed
812797872 PMSTA-52892 Portfolio_Builder-Amendment- Locking the complete position is not
working for sell
4ef08ea5f PMSTA-52845-Cash goes negative even when negative cash is not permitted during
amendments fixed
fa3988322 PMSTA-52707-Blacklisted Instrument should be allowed to sell fixed
44bb20378 PMSTA-52887: Portfolio_Builder-Amendment- Wrong odd lot warning message displayed
1b8d40ac1 PMSTA-48864 For Risk Compliance external service call will not be happen in offline mode.
b9b000e35 PMSTA-52867 Portfolio Builder - Amendments - When amending MV Pcnt, for a Sub model
order is not generating.
e22ffac0f PMSTA-52845-Portfolio Builder - Amendments - Cash goes negative even when negative cash
is not permitted fixed for single portfolio.
```

## SVN - commands

17 May 2023 09:50

```
/c/Users/laxmishhegde/Desktop/ta_deployer->svn --trust-server-cert update
Updating ':'.
At revision 461343.
```

```
/c/Users/laxmishhegde/Desktop/ta_deployer->svn --trust-server-cert checkout https://lausvn.temenosgroup.com/svn/devel/internal/ENV/Deployment/TA/ta_deployer.
```

```
/c/Users/laxmishhegde/Desktop/ta_deployer->svn help commit
commit (ci): Send changes from your working copy to the repository.
usage: commit [PATH...]
```

A log message must be provided, but it can be empty. If it is not given by a --message or --file option, an editor will be started.

If any targets are (or contain) locked items, those will be unlocked after a successful commit, unless --no-unlock is given.

If --include-externals is given, also commit file and directory externals reached by recursion. Do not commit externals with a fixed revision.

Valid options:

```
-q [--quiet] : print nothing, or only summary information
-N [--non-recursive] : obsolete; same as --depth=empty
--depth ARG : limit operation by depth ARG ('empty', 'files',
 'immediates', or 'infinity')
--targets ARG : pass contents of file ARG as additional args
--no-unlock : don't unlock the targets
-m [--message] ARG : specify log message ARG
-F [--file] ARG : read log message from file ARG
--force-log : force validity of log message source
--editor-cmd ARG : use ARG as external editor
--encoding ARG : treat value as being in charset encoding ARG
--with-revprop ARG : set revision property ARG in new revision
 using the name[=value] format
--changelist [-cl] ARG : operate only on members of changelist ARG
--keep-changelists : don't delete changelists after commit
--include-externals : also operate on externals defined by
 svn:externals properties
```

(Use '-v' to show global and experimental options.)

## Preventing system shutdown due to software update

22 March 2023 20:42

Smart Card Device Enumeration Service	Creates software device nodes for all smart card readers accessible to a given session. If this service is disabled, WinRt APIs will not be able to enumerate smart card readers.
Smart Card Removal Policy	Allows the system to be configured to lock the user desktop upon smart card removal.
<b>SMS Agent Host</b>	<b>Provides change and configuration services for computer management systems.</b>
SNMP Trap	Receives trap messages generated by local or remote Simple Network Management Protocol (SNMP) agents and forwards the messages to SNMP management applications.

Stop the SMS Agent Host Service.

## Interactive Rebase(feature branch) using tGit until develop commit-id

21 March 2023 13:10

C:\w\TA\perfbase - Rebasing - TortoiseGit

Branch:	feature/27.8.0.performance	Upstream:	remotes/origin/develop
REBASE	ID SHA-1	Message	Author Date
Pick	137 450a79ecf5ba25fc0f34b33f2bb06aec551a38c	feature/27.8.0.performance origin/feature/27.8.0.performance PMSTA-50687-RemoveCodeDoneForREQ41658	lalby.thomas 08-03-2023 14:30:17
Pick	136 f9aff1b61c31522aaed4dd02574ca0067e38d221	PMSTA-50687-RemoveCodeDoneForREQ41658	lalby.thomas 08-03-2023 14:11:57
Pick	135 f25ec54fb5841ecc703d2c953cae0c681f90	PMSTA-51469 - Updated storage_portfolio_compo.c	k.senthilkumar 07-03-2023 12:45:35
Pick	134 616ef1ea791187ed005050ea174b56383ee53bf1	PMSTA-51469_new - Updated Comments	k.senthilkumar 07-03-2023 11:07:54
Pick	133 9ff9e08a7e7050e2262665643791a01dc65	PMSTA-51469 - Added storage_portfolio_compo.psc	k.senthilkumar 06-03-2023 22:40:34
Pick	132 5612ec2b59771cd0be21c6f644d8f9d72d19	PMSTA-47387 - Add new PAP (MIC and MIVR)	Joel Bycraft 08-02-2023 23:00:25
Pick	131 8508614c4096854690041dec1c2289d8ecc5	PMSTA-47382 - Update fusion to set flow_info_e and timing_rule_e (fusion sort)	Joel Bycraft 06-02-2023 20:14:42
Pick	130 73d4f5ae3a23961e9b2a0202361c1bd62d218	PMSTA-47382 - Update fusion to set flow_info_e and timing_rule_e (fusion sort)	Joel Bycraft 06-02-2023 00:13:37
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Pick	126 660670c33927dbd35af60506a9921a8212785a	PMSTA-47382 - Use global period to compute perf_calc_result using contrin return method.	Didier Devleey 01-02-2023 21:24:10
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Pick	124 08ef866cb3978566e2fe18b596a62b52ab	PMSTA-50467 - Management of detailed and merged historical group in performance	Joel Bycraft 31-01-2023 04:49:03
Pick	123 351777ec99b6972446f1791a76bb6e979377	PMSTA-50467 - Fix missing perf_calc_result and add AAAKEEPPFTSYNTHNP	Didier Devleey 27-01-2023 00:13:45
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# Dynamic Sql Tracing

19 March 2023 12:55

1. export AAASQLTRACE=3
2. export AAASQLTRACEPARAM=3
3. export AAASQLTRACEMASK=15

Sql trace for the filter script as below:

```
[2023/03/19 12:53:06:374000] ORAStatementExecute - ct_command(aaamaindb,aaa,1,1,0) SUCCEED Connect=1 CsCmd= 19539630 Mode=RPC Thread=pid#17436-tid#2360 Request="select e.* FROM AAAMAINDB.CORP_ACTION_DETAIL_VW e , AAAMAINDB.CORPORATE_ACTION_VW j1 WHERE j1.id = e.corporate_action_id AND (((j1.instr_id = :1 /*2228*/) AND (j1.code = :2 /*'IPO'/*))) ... (ThreadRequest:aaa_gui.00001310-pid#17436-tid#2360)
command() - Succeed - Connect=1 - Request="select e.* FROM AAAMAINDB.CORP_ACTION_DETAIL_VW e , AAAMAINDB.CORPORATE_ACTION_VW j1
WHERE j1.id = e.corporate_action_id AND (((j1.instr_id = 2228.00000000/*2228*/) AND (j1.code = 'IPO'/*'IPO'/*)))
"...281.356000
```

# Need to work on poc activities - self learning

24 February 2023 10:37

1. Debugging of the lex and yyparse code
2. Remote debugging using visual studio and linux
3. Local deployment of the TAP using dev tools
4. Subscription run using debug map, build map, deployment

# git : upstream setup - commands

03 December 2022 15:56

```
$ git remote add upstream ssh://git@bitbucket.temenos.com:7999/tws/ta.git
```

```
=====
$ git push -u <remote> <branch>
```

```
$ git push --set-upstream <remote> <branch>
```

```
$ git checkout -b branch Switched to a new branch 'branch'
```

## Check tracking branch:

```
$ git branch -vv * branch 808b598 Initial commit master 808b598 [origin/master] Initial commit
```

We can set the upstream branch using the “git push” command.

```
$ git push -u origin branch
```

```
Total 0 (delta 0), reused 0 (delta 0) * [new branch] branch -> branch Branch 'branch' set up to track remote branch 'branch' from 'origin'.
```

```
$ git branch -vv * branch
```

```
808b598 [origin/branch] Initial commit
```

```
master 808b598 [origin/master] Initial commit
```

```
$ git push -u origin HEAD
```

From <<https://devconnected.com/how-to-set-upstream-branch-on-git/>>

```
$ git checkout --track origin/dev
```

```
$ git branch -u <remote>/<branch>
```

```
$ git checkout -b feature Switched to a new branch 'feature'
```

```
$ git branch -u origin/master Branch 'feature' set up to track remote branch 'master' from 'origin'.
```

From <<https://devconnected.com/how-to-set-upstream-branch-on-git/>>

```
/w/TA/perfbase->git checkout feature/27.8.0.performance
```

```
Updating files: 100% (4565/4565), done.
```

```
Switched to a new branch 'feature/27.8.0.performance'
```

```
branch 'feature/27.8.0.performance' set up to track 'origin/feature/27.8.0.performance'.
```

```
/w/TA/perfbase->git push -u origin feature/27.8.0.performance
```

```
warning: redirecting to https://bitbucket.temenos.com/scm/tws/ta/
```

```
Everything up-to-date
```

```
branch 'feature/27.8.0.performance' set up to track 'origin/feature/27.8.0.performance'.
```

```
/w/TA/perfbase->
```

# ITX Custom Adapters - gatit and gattest - C-API for running maps

07 November 2022 10:06

<https://www.ibm.com/docs/en/ste/10.1.1?topic=adapters-adapter-registration-library-virtual-table>

The first step required to develop an adapter is to add the adapter to the adapters.xml registration file.

The following line is an example of how to add an adapter to the adapters.xml file:

```
<UserAdapter name="File Sample" alias="SFILE" id="201" type="file"
library="filesamp" vendor="abc"/>
```

This contains one key field: the name of the library (library="filesamp"). Note that name must not contain a .DLL, .SO, .SL, or any other library extension.

The adapter must export the library virtual table, which must be given the same name as the library, with \_config appended. For example, filesamp\_config.

The library virtual table contains a number of pointers to methods and configuration information for the adapter. Its structure is:

```
struct MPI_LIBRARY_VTABLE

{
 size_t nSize; /* size of this structure */
 MPIIRC (*pfInitializeLibrary)(void);
 MPIIRC (*pfDestroyLibrary)(void);
 MPIIRC (*pfCreateAdapterInstance)(HMPPIADAPT *phAdapter, HMPICARD hCard);
 MPIIRC (*pfDestroyAdapterInstance)(HMPPIADAPT hAdapter);
 MPIIRC (*pfCreateConnectionInstance)(HMPICONNECT *phConnection);
 MPIIRC (*pfDestroyConnectionInstance)(HMPICONNECT hConnection);
 MPIIRC (*pfCombinedListen)(HMPPIADAPTCOLL hColl,HMPICONNECT hConn);

 char lpszCommandMask; /* Mask of command line arguments defining connection
 */
 int nTransMode; /* single, multiple or non-transactional */
 int nBurstType; /* Unit of work - message or logical */
 int bListener; /* Does the adapter support listener interface */
 int bListenerBlocks; /* Does the listener block */
 int bListenerTrans; /* Is the listener transactional? */
 int bRetries; /* Does the adapter support retries */

 /* Source settings */
 int bSourceManage; /* Should RM manage the source? */
 int bSourceWarnings; /* Does the adapter return warnings on sources? */
 int nSourceScopes; /* Which adapter Scope settings are supported for source? */
 /*
 int nSourceOnSuccess; /* Which OnSuccess settings are supported for source?
 */
 int nSourceOnFailure; /* Which OnFailure settings are supported for source?
 */
 int nDefSourceScope; /* Default Scope setting for source */
 int nDefSourceOnSuccess; /* Default OnSuccess setting for source */
 int nDefSourceOnFailure; /* Default OnFailure setting for source */

 /* Target settings */
 int bTargetManage; /* Should RM manage the target? */
 int bTargetWarnings; /* Does the adapter return warnings on targets? */
 int nTargetScopes; /* Which adapter scope settings are supported for target? */
 /*
 int nTargetOnSuccess; /* Which OnSuccess settings are supported for target?
 */
 int nTargetOnFailure; /* Which OnFailure settings are supported for target?
 */
 int nDefTargetScope; /* Default Scope setting for target */
 int nDefTargetOnSuccess; /* Default OnSuccess setting for target */
 int nDefTargetOnFailure; /* Default OnFailure setting for target */
};
typedef struct MPI_LIBRARY_VTABLE MPI_LIBRARY_VTABLE;
```

<https://www.ibm.com/docs/en/ste/10.1.1?topic=apis-c-api>

# C API overview

Last Updated: 2022-02-01

The C API enables applications to invoke maps and to develop adapters to use with IBM Transformation Extender.

- **C API interface methods overview**

The map, card, and adapter object properties define the properties that can be set for each object. Use the C API interface methods to GET or SET the adapter object properties.

- **Loading, running, and controlling maps**

There are various methods you can use to load, run, and control maps when you use APIs with IBM Transformation Extender.

- **Custom adapters**

The custom adapters interface makes it possible for users to develop adapters with as much functionality as those provided with the product.

## Oracle Roles, Privileges Query

17 August 2022 23:18

```
SQL> select * from dba_role_privs where granted_role='TASC_TECH';
```

GRANTEE	GRANTED_ROLE	ADMIN_OPTION	DELEGATE_OPTION	DEFAULT_ROLE	COMMON	INHERITED
1 TASCLOGIN	TASC_TECH	YES	NO	YES	NO	NO
2 SYS	TASC_TECH	YES	NO	YES	NO	NO

```
SQL> select * from dba_tab_privs;
```

GRANTEE	OWNER	TABLE_NAME	GRANTOR	PRIVILEGE	GRANTABLE	HIERARCHY	COMMON	TYPE	INHERITED
1 PUBLIC	SYS	DUAL	SYS	SELECT	YES	NO	NO	TABLE	NO
2 PUBLIC	SYS	SYSTEM_PRIVILEGE_MAP	SYS	READ	NO	NO	NO	TABLE	NO
3 PUBLIC	SYS	TABLE_PRIVILEGE_MAP	SYS	READ	NO	NO	NO	TABLE	NO
4 PUBLIC	SYS	USER_PRIVILEGE_MAP	SYS	READ	NO	NO	NO	TABLE	NO
5 PUBLIC	SYS	STMT_AUDIT_OPTION_MAP	SYS	READ	NO	NO	NO	TABLE	NO
6 SYSTEM	SYS	ORA\$BASE	SYS	USE	YES	NO	NO	EDITION	NO
7 PUBLIC	SYS	DM\$EXPIMP_ID_SEQ	SYS	SELECT	NO	NO	NO	SEQUENCE	NO
8 PUBLIC	SYS	MODELGTRAW\$	SYS	SELECT	NO	NO	NO	TABLE	NO
9 PUBLIC	SYS	MODELGTTRAWS	SYS	INSERT	NO	NO	NO	TABLE	NO

```
SQL> select * from dba_sys_privs
```

SQL | Fetched by rows in 0.363 seconds

GRANTEE	PRIVILEGE	ADMIN_OPTION	COMMON	INHERITED
1 TRIPLEA_OWNER	DROP ANY PROCEDURE	YES	NO	NO
2 TRIPLEA_OWNER	DROP ANY SEQUENCE	YES	NO	NO
3 PROXYLOGIN	DROP ANY INDEX	NO	NO	NO
4 TASCLOGIN	ALTER ANY INDEX	NO	NO	NO
5 TRIPLEA_OWNER	ALTER ANY INDEX	NO	NO	NO
6 SYS	CREATE ANY INDEX	NO	NO	NO
7 PROXYLOGIN	UNLIMITED TABLESPACE	NO	NO	NO
8 AAAMAINDB	SELECT ANY DICTIONARY	NO	NO	NO
9 TRIPLEA_OWNER	DROP ANY LIBRARY	NO	NO	NO
10 TRIPLEA_OWNER	CREATE ANY LIBRARY	NO	NO	NO
11 TRIPLEA_OWNER	CREATE ANY TYPE	NO	NO	NO
12 SYS	CREATE ANY DIRECTORY	NO	NO	NO
13 TASCLOGIN	CREATE ANY DIRECTORY	NO	NO	NO
14 TASCLOGIN	DROP ANY PROCEDURE	NO	NO	NO
15 TRIPLEA_OWNER	SELECT ANY SEQUENCE	YES	NO	NO

Expected grant chart is as below

GRANTEE	GRANTED_ROLE	ADMIN_OPTION	DELEGATE_OPTION	DEFAULT_ROLE	COMMON	INHERITED
<hr/>						
TASC	TASC_TECH	YES	NO	YES	NO	NO
TASC	TRIPLEA	YES	NO	YES	NO	NO

How to Create a User and Grant Permissions in Oracle

1. CREATE USER hla IDENTIFIED BY hlahla;
  2. GRANT CONNECT TO hla;
  3. GRANT CONNECT, RESOURCE, DBA TO hla;
  4. GRANT CREATE SESSION GRANT ANY PRIVILEGE TO hla;
  5. GRANT UNLIMITED TABLESPACE TO hla;

### Revoke examples

To revoke the SELECT privilege on table t from the authorization IDs hla and hla1, use the following syntax:

### **REVOKE SELECT ON TABLE t FROM hla,hla1**

To revoke the UPDATE and TRIGGER privileges on table t from the authorization IDs anita and zhi, use the following syntax:

**REVOKE UPDATE, TRIGGER ON TABLE t FROM anita,zhi**

To revoke the SELECT privilege on table s.v from all users, use the following syntax:

**REVOKE SELECT ON TABLE s.v FROM PUBLIC**

To revoke the UPDATE privilege on columns c1 and c2 of table s.v from all users, use the following syntax:

To revoke the EXECUTE privilege on an object from the authorization ID `source`, use the following syntax:

**REVOKE EXECUTE ON PROCEDURE p FROM george;**

**REVOKE EXECUTE ON PROCEDURE p FROM george RESTRICT**  
To revoke the role purchases\_reader role from the authorization IDs george and maria, use the following:

```
REVOKE SELECT ON TABLE t FROM purchases_reader_role
```

To revoke the USAGE privilege on the sequence generator order\_id from the role sales\_role, use the following syntax:

```
REVOKE USAGE ON SEQUENCE order_id FROM sales_role;
```

To revoke the USAGE privilege on the user-defined type price from the role finance\_role, use the following syntax:

```
REVOKE USAGE ON TYPE price FROM finance_role;
```

From <<https://docs.oracle.com/javadb/10.8.3.0/ref/rrefsql/revoke.html>>

## Oracle "with admin" vs. "with grant" security privileges

*Oracle Database Tips by Donald Burleson*

**Question:** What is the difference between the "with admin" option and the "with grant" option. How do these grant option affect user access?

**Answer:** There is a very distinct difference, and it's important to carefully consider the ramifications of using either "with grant option" or "with admin option". These options relinquish control of the database privileges from a single database owner to multiple users, something that must be carefully controlled to ensure proper security.

**Beware:** Using "with admin" and "with grant" options are considered Oracle dangerous because if they are not managed carefully you can have unintended side effects, resulting to a security hole.

Both the 'with grant' and 'with admin' options serve to relinquish central security control, but they are for different types of privileges.

### With Grant option:

- Only for object privileges, not system privileges.
- Only the person who granted the privilege can revoke the privilege.
- Revoked privileges can "cascade", allowing the first grantor to revoke many subsequent grants.

### With Admin option:

- Only for system privileges, not object privileges.

### Using the with admin option

Any 'global' privileges like roles and system privileges (e.g. CREATE TABLE) are granted using the WITH ADMIN OPTION. For table-specific privileges (e.g. GRANT select on emp) we use WITH GRANT OPTION syntax. Also, revoking any grant WITH GRANT will cascade and revoke any and all privileges assigned by the privileged user. On the other hand, revoking someone with the WITH ADMIN OPTION will only revoke their personal privileges, leaving intact all granted users.

When system privileges are passed to others using the WITH ADMIN OPTION, revoking the system privileges from the original user will not cascade. The system privileges granted to others must be revoked directly. In contrast, when object privileges are passed on to others using the WITH GRANT OPTION, the object privileges are revoked when the grantor's privileges are revoked.

It is important to note that only object privileges will cascade when revoked; system privileges will not.

When the WITH ADMIN OPTION or WITH GRANT OPTION has been included in a grant to another user, the privilege cannot be revoked directly. You must revoke the privilege and then issue another grant without the WITH ADMIN OPTION or WITH GRANT OPTION.

### The "with admin" privilege

Sometime you want to grant privileges to users and have them be able to grant those privileges to other users. When this is the case, we include the WITH ADMIN OPTION keyword in the GRANT command. When this keyword is used, it will allow the user granted the privilege to grant that privilege to other users.

Privileges that are granted WITH ADMIN OPTION can be passed to other users. Hence, many companies prohibit this option, and others check to ensure that all user ID's are proper. Here is an example of the usage of the with admin option keyword.

```
GRANT
 CREATE INDEX
 TO
 Robert
 WITH ADMIN OPTION;
```

The metadata security audit information for users having the WITH ADMIN OPTION is located in the DBA\_SYS\_PRIVS view. Read more [here](#).

### The "with grant" privilege

The WITH GRANT option allows you to give the user you are assigning the privilege to grant this privilege to other users. Only the schema that owns the object can grant privileges to that object unless the WITH GRANT option is included in the command. Here is an example of the use of the with grant option:

```
GRANT SELECT ON
 emp
 TO
 scott
 WITH GRANT OPTION;
```

See [here](#) for more on the WITH GRANT option.

From <[https://www.dba-oracle.com/t\\_with\\_grant\\_admin\\_privileges.htm](https://www.dba-oracle.com/t_with_grant_admin_privileges.htm)>

# QT Repository

30 July 2022 15:58

```
> git://code.qt.io/qt/qt5.git
> git://code.qt.io/qt/qtbase.git
```

<https://github.com/laxmishhegde/qtbase>

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22070300814>>

=====

<https://contribute.qt-project.org/forums/viewthread/2420>

The **Qt Project** is an open collaboration effort to coordinate the development of the Qt software framework and tools.

The following steps are intended for code and documentation contributions, but keep in mind you can help the project in many other ways.

## Setting up your environment

### 1. Create an Account

[Register](#) your Qt account, so you can easily authenticate among all the Qt services: Bug tracker, Gerrit, Wiki, etc.

### 2. Install the necessary software

You can check the platform-dependent requirements for building Qt from source in the [documentation page](#), here is a short list:

- [Git](#) is being used in all the repositories, so you will need it for getting the source code, push your contributions, etc.
- [CMake](#) is used for configuring a Qt build.
- [Ninja](#) is recommended in order to compile the project that is configured by CMake.

### 3. Get the sources

You can get the [qtbase repository](#) as a starting point which include many modules like Core, Gui, and Widgets:

git clone <https://code.qt.io/qt/qtbase.git>

All the qtbase modules can be [found here](#). Other Qt modules can be [found here](#).

### 4. Configure Gerrit

Login into [Gerrit](#) and add your desire information to your account, but remember to accept the [CLA](#).

Configure your SSH and add the proper remote to your repository. Read more about the process [on the wiki](#) about the process, but if you configured everything correctly, you should get the following message when trying the following command:

\$ ssh codereview.qt-project.org

\*\*\*\*Welcome to Gerrit Code Review \*\*\*\*Hi <name>, you have successfully connected over SSH.

Unfortunately, interactive shells are disabled.

To clone a hosted Git repository, use: git clone ssh://<username>@codereview.qt-project.org:29418/REPOSITORY\_NAME.gitConnection to codereview.qt-project.org closed.

## Prepare your contributions

### 1. Find an issue to solve

In case you are not solving a problem you encounter while developing an application, you can check the list of open issues in [our bug report system](#) in order to find something that is interesting to you.

### 2. Commit & Push!

Once you have your local patch ready to submit, remember a few things:

Check the [Commit Policy](#) and remember to add a Task-number: or Fixes: entry to the commit footer. Since your patch will be pushed to the dev branch, add a Pick-to: when a cherry pick to another branch if necessary.

git push gerrit HEAD:refs/for/dev

From <<https://contribute.qt-project.org/forums/viewthread/2420>>

QT\_ASSUME\_STDERR\_HAS\_CONSOLE=1

QT\_FORCE\_STDERR\_LOGGING=1

# GWPACK local Build

Friday, July 1, 2022 9:54 AM

Download the following jars into %ANT\_HOME%\lib:

1. svnant.jar
2. svnClientAdapter.jar
3. svnjavahl.jar
4. ant-contrib-1.0b3.jar

Build.properties

1. reference.drive=:
2. ant -Dwtx.compile=9.0.0.2 -Dproject.version=**6.4.17** -Dis.current.version=false build #6.4.17 is the branch name from bitbucket

From <<https://stackoverflow.com/questions/16438497/svnantlib-xml-could-not-be-found>>

# TAP Boot Entities

Friday, April 22, 2022 10:39 AM

```
bool DBA_EntIsBootEntity (OBJECT_ENUM enEntity)
{
 bool boolBootStrap = false;
 switch (GET_OBJECT_CST(enEntity))
 {
 case DictAttrCst:
 case DictCriterCst:
 case DictDatabaseCst:
 case DictDataTpCst:
 case DictDependsCst:
 case DictEntityCst:
 case DictErrMsgCst:
 case DictLabelCst:
 case DictLangCst:
 case DictPermValCst:
 case DictSegmentCst:
 case DictSprocCst:
 case DictSprocParamCst:
 case DictSprocReturnsCst:
 case DictUserCst:
 case ScriptDefCst:
 case XdAttribCst:
 case XdAttributeCustoCst:
 case XdEntityCst:
 case XdEntityFeatureCst:
 case XdIndexCst:
 case XdIndexAttribCst:
 case XdLabelCst:
 case XdPartitionCst:
 case XdPartitionIndexCst:
 case XdPermValCst:
 boolBootStrap = true;
 break;
 }
 return boolBootStrap;
}
```

## Invalid oracle objects & compile

Thursday, April 7, 2022 11:55 AM

ksheet | Query Builder

```
'ALTER ' || OBJECT_TYPE || ' ' ||
OWNER || '.' || OBJECT_NAME || ' COMPILE;'
from
dba_objects
where
status = 'INVALID'
and
object_type in ('PACKAGE','FUNCTION','PROCEDURE','VIEW','TRIGGER');

SEL_EXD_POSITION_BY_DOMAIN;
CREATE_EXTENDED_TABLE_FROM_MD;

ALTER PROCEDURE AAAMAINDB.SEL_EXD_POSITION_BY_DOMAIN COMPILE;

select owner, object_type, object_name
from all_objects
where status = 'INVALID'
and object_name not like 'TJO%';
```

## Stored Procedure Compilation command

Saturday, March 12, 2022 12:57 PM

Oracle

```
Alter procedure Ins_portfolio_by_id compile
```

Sybase

```
Create or replace With recompile
```

## Proxy Server Setup - socat

Tuesday, February 8, 2022 6:23 PM

PMSTA-47239

```
./socat -v -x -d -d TCP4-LISTEN:1521,reuseaddr,fork TCP4:10.55.55.5:1521
```

```
 socat -v -x -d -d TCP4-LISTEN:1522,reuseaddr,fork TCP4:10.94.15.26:1521
```

1522: localhost port number

1521: Oracle server port number.

Tnsnames.ora: Provide the ip address as localhost:1522

Bring up the financial server/subd

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22020701812>>

From <<http://rd.temenosgroup.com/browse/PMSTA-47239>>

<https://fossies.org/linux/socat/EXAMPLES>



**"[Fossies](#)" - the Fresh Open Source Software Archive**



**Member "socat-1.7.4.3/EXAMPLES" (3 Jan 2021, 17419 Bytes) of  
package [/linux/privat/socat-1.7.4.3.tar.gz](#):**

As a special service "Fossies" has tried to format the requested text file into HTML format (style: [standard](#)) with prefixed line numbers. Alternatively you can here [view](#) or [download](#) the uninterpreted source code file. See also the last [Fossies "Diffs"](#) side-by-side code changes report for "EXAMPLES":

## 1.7.3.4 vs 1.7.4.0

```
1 // Examples for using socat (and filan)
2 5 // $" means normal user, "#" requires privileges, "://" starts a comment
3 //
4 // similar to netcat
5 // connect to 10.1.1.1 on port 80 and relay to and from stdio
6 $ socat - TCP:10.1.1.1:80 # similar to "netcat 10.1.1.1 80"
7 // listen on port 25, wait for an incoming connection, use CR+NL on this
8 // connection, relay data to and from stdio;
9 // then emulate a mailserver by hand :-
10 # socat - TCP-LISTEN:25,crlf
11 // listen on port 25, wait for an incoming connection, use CR+NL on this
12 // connection, relay data to and from stdio, but have line editing and history;
13 // then emulate a mailserver by hand :-
14 # socat readline TCP-LISTEN:25,crlf
15 // provide a transient history enabled front end to stupid line based
16 // interactive programs
17 $ socat readline exec:"nslookup",pty,ctty,setsid,echo=0
18 // same works for ftp (but password is not hidden)
19 // you may also use a file based history list
20 $ socat readline,history=.nslookup_hist exec:"nslookup",pty,ctty,setsid,echo=0
21 // using ~ as abbreviation for $HOME does not work!
22 // poor mans 'telnetd' replacement
23 # socat tcp-1:2023,reuseaddr,fork exec:/bin/login,pty,setsid,setpgid,stderr,ctty
24 // and here an appropriate client:
25 $ socat -,raw,echo=0 tcp:172.16.181.130:2023
26 // use ssl with client and server certificate for improved security;
27 // replace /bin/login by /bin/bash when using SSL client authentication, can be
28 // run without root then
29 // this is a cool trick, proposed by Christophe Lohr, to dump communications to
30 // two files; it would also work for other manipulations (recode, compress...)
31 // and it might also work with netcat ;-)
32 $ socat TCP-LISTEN:5555 SYSTEM:'tee l2r | socat - "TCP:remote:5555" | tee r2l'
33 // emergence solution because usleep(1) is not always available
34 // this will "sleep" for 0.1s
35 $ socat -T 0.1 pipe pipe
36 // a very primitive HTTP/1.0 echo server (problems: sends reply headers before
37 // request; hangs if client does not shutdown - HTTP keep-alive)
38 // wait for a connection on port 8000; do not wait for request, but immediately
39 // start a shell that sends reply headers and an empty line; then echo all
40 // incoming data back to client
41 $ socat TCP-LISTEN:8000,crlf SYSTEM:"echo HTTP/1.0 200; echo Content-Type\: text/plain; echo; cat"
```

```

57 58 // a less primitive HTTP echo server that sends back not only the request but
59 // also server and client address and port. Might have portability issues with
60 // echo
61 ./socat -T 1 -d -d tcp-1:10081,reuseaddr,fork,crlf system:"echo -e \"\\\"HTTP/1.0 200 OK\\\\nDocumentType: text/html\\\\n\\\\n<html>date:
\$\\(date\\)<br\\>server:\\$SOCAT_SOCKADDR:\\$SOCAT_SOCKPORT<br\\>client: \\$SOCAT_PEERADDR:\\$SOCAT_PEERPORT\\\\n<pre>\\\"\\\"; cat; echo -e
\"\\\"\\\"\\n<pre></html>\\\"\\\""
62 63 /////////////////////////////////
64 // for communicating with an attached modem, I had reasonable results with
65 // following command line. Required privileges depend on device mode.
66 // after leaving socat, type "sane".
67 // replace /dev/ttyS0 by the correct serial line or with /dev/modem
68 $ socat readline /dev/ttyS0,raw,echo=0,crlf
69 // or
70 $ socat readline /dev/ttyS0,raw,echo=0,crlf,nonblock
71 // then enter "at$"
72 73 /////////////////////////////////
74 // relay TCP port 80 from everywhere (internet, intranet, dmz) through your
75 // firewall to your DMZ webserver (like plug-gw)
76 // listen on port 80; whenever a connection is made, fork a new process (parent
77 // process keeps accepting connections), su to nobody, and connect to
78 // www.dmz.mydomain.org on port 80.
79 // attention: this is a substitute for a reverse proxy without providing
80 // application level security.
81 # socat TCP-LISTEN:80,reuseaddr,fork,su=nobody TCP:www.dmz.mydomain.org:80
82 // Note: parent process keeps running as root, su after forking
83 84 /////////////////////////////////
85 // relay mail from your DMZ server through your firewall.
86 // accept connections only on dmz interface and allow connections only from
87 // smtp.dmz.mydomain.org.
88 // the advantages over plug-gw and other relays are:
89 // * you can bind to an IP address (even an alias), therefore enhance security
90 // * in your OS you can create several IP aliases and bind another socat daemon
91 // to each, making several application servers addressable
92 // * lots of options, like switching user, chroot, IP performance tuning
93 // * no need for inetd
94 # socat -lm -d -d TCP-LISTEN:25,bind=fw.dmz.mydomain.org,fork,su=nobody,range=smtp.dmz.mydomain.org/32 TCP:smtp.intra.mydomain.org:25
95 96 /////////////////////////////////
97 // convert line terminator in ascii streams, stdin to stdout
98 // use unidirectional mode, convert nl to crnl
99 $ socat -u - -crlf
100 // or cr to nl
101 $ socat -u - -crlf
102 103 // save piped data similar to 'tee':
104 // copies stdin to stdout, but writes everything to the file too
105 $ socat -,echo=0 open:/tmp/myfile,create,trunc,ignoreeof!!:/tmp/myfile
106 107 /////////////////////////////////
108 // intrusion testing
109 110 // found an Xwindow Server behind IP filters with FTP data hole? (you are
111 // lucky!)
112 // prepare your host:
113 # rm -f /tmp/.X11-unix/X1
114 // relay a pseudo display :1 on your machine to victim:0
115 # socat UNIX-LISTEN:/tmp/.X11-unix/X1,fork TCP:host.victim.org:6000,sp=20 &
116 // and try to take a screendump (must be very lucky - when server has not even
117 // host based authentication!)
118 # xwd -root -display :1 -silent >victim.xwd
119 120 // you sit behind a socks firewall that has IP filters but lazily allows socks
120 // connections to loopback and has only host based X11 security.
122 // like above, but from your inside client:
123 # socat UNIX-LISTEN:/tmp/.X11-unix/X1,fork SOCKS4:firewall:loopback:6000
124 // or for the HTTP proxy:
125 # socat UNIX-LISTEN:/tmp/.X11-unix/X1,fork PROXY:firewall:loopback:6000
126 127 /////////////////////////////////
128 // forms of stdin with stdout, all equivalent
129 $ socat echo -
130 $ socat echo STDIO
131 $ socat echo STDIN!STDOUT
132 $ socat echo STDIO!STDIO
133 $ socat echo -!-
134 $ socat echo FD:0!!FD:1
135 $ socat echo 0!!!
136 $ socat echo /dev/stdin!!/dev/stdout // if your OS provides these
137 138 /////////////////////////////////
139 // some echo address examples
140 $ socat - PIPE
141 $ socat - PIPE:/tmp/pipi // other version of echo
142 $ socat - PIPE:/tmp/pipi,nonblock!!/tmp/pipi // other version of echo
143 $ socat - EXEC:/bin/cat // another echo
144 $ socat - SYSTEM:/bin/cat // another echo
145 $ socat - TCP:loopback:7 // if inetd echo/TCP service activated
146 $ socat - UDP:loopback:7 // if inetd echo/UDP service activated
147 $ socat - /tmp/hugo,trunc,ignoreeof!!/tmp/hugo // with delay
148 $ socat - UDP:loopback:2000,bind:2000 // self "connection"
149 $ socat - TCP:loopback:2000,bind:2000 // Linux bug?
150 # socat - IP:loopback:222 // raw protocol, self "connected" (attention,
151 // Linux might drop packets with less than 8 bytes payload)
152 153 /////////////////////////////////
154 // unidirectional data transfer
155 $ socat -u -
156 // like "tail -f", but start with showing all file contents
157 $ socat -u FILE:/var/log/syslog.debug,ignoreeof -
158 // like "tail -f", but do not show existing file contents
159 $ socat -u FILE:/var/log/syslog.debug,ignoreeof,seek-end -
160 // write to new file, create with given permission and group (must be member) - race condition with group!!!
161 $ socat -u - CREATE:/tmp/outfile1,group=floppy,perm=0640

```

```

162 //
163 // for an existing file /tmp/outfile1
164 # socat -u - FILE:/tmp/outfile1,group=floppy,perm=0700,user=4321
165 166 167 //file handling
168 // file handling
169 $ socat - FILE:/tmp/outfile1,ignoreeof!!FILE:/tmp/outfile1,append // prints outfile1, then echoes input and protocols into file
(appeads to old data)
170 171 //file handling
172 // unix socket handling
173 174 // create a listening unix socket
175 $ rm -f /tmp/mysocket; socat UNIX-LISTEN:/tmp/mysocket -
176 // from another terminal, connect to this socket
177 $ socat UNIX:/tmp/mysocket -
178 // then transfer data bidirectionally
179 180 181 //transport examples
182 // transport examples
183 184 // socks relay (externally socksify applications);
185 // your ssh client and OS are not socksified, but you want to pass a socks
186 // server with ssh:
187 $ socat TCP-LISTEN:10022,fork SOCKS4:socks.mydomain.org:ssh-serv:22
188 $ ssh -p 10022 loopback
189 // or better define a ProxyCommand in ~/.ssh/config:
190 ProxyCommand socat - SOCKS:socks.mydomain.org:%h:%p
191 // and with proxy:
192 ProxyCommand socat - PROXY:proxy.mydomain.org:%h:%p,proxyport=8000
193 194 //application examples
195 // application examples
196 197 // run sendmail daemon with your favorite network options
197 # socat TCP-LISTEN:25,fork,ip-ttl=4,ip-tos=7,tcp-maxseg=576 EXEC:"/usr/sbin/sendmail -bs",nofork
199 200 // local mail delivery over UNIX socket - no SUID program required
201 # socat UNIX-LISTEN:/tmp/postoffice,fork,perm-early=0666 EXEC:"/usr/sbin/sendmail -bs"
202 $ socat - /tmp/postoffice
203 204 //uses of filan
205 // uses of filan
206 // see what your operating system opens for you
207 $ filan
208 // or if that was too detailed
209 $ filan -s
210 // see what file descriptors are passed via exec function
211 $ socat - EXEC:filan,nofork
212 $ socat - EXEC:filan
213 $ socat - EXEC:filan,pipes,stderr
214 $ socat - EXEC:filan,pipes
215 $ socat - EXEC:filan,pty
216 // see what's done by your shell and with option "pipes"
217 $ socat - SYSTEM:filan,pipes
218 // see if gdb gives you an equivalent environment or opens some files for your program
219 $ gdb ./filan
220 (gdb) r
221 (gdb) r -s
222 223 //want to use chat from the ppp package?
224 // note: some OS's do not need "-e" for echo to print control characters
225 // note: chat might send bytes one by one
226 // with AIX, a similar program is available under the name "pppdial"
227 // with AIX, a similar program is available under the name "pppdial"
228 $ socat -d -d tcp:localhost:25,crlf,nodelay exec:'/usr/sbin/chat -v -s "\"220 \\"\" \"\HELO loopback\"\" \"\250 \\"\" \"\MAIL FROM:<hugo@localhost>\\"\" \"\250 \\"\" \"\RCPT TO: root\"\" \"\250 \\"\" \"\DATA\"\" \"\354 \\"\" \"\test1$(echo -e \"\r.\")\"\\"\" \"\250 \\"\" \"\QUIT\\"\" \"\221 \\"\"",pty,echo=0,cr
229 230 //IP6
231 // IP6
232 233 # socat readline TCP6:[::]:21 # if your inetd/ftp is listening on ip6
234 235 //VSOCK
235 // VSOCK
236 # start a linux VM with cid=21
237 # qemu-system-x86_64 -m 1G -smp 2 -cpu host -M accel=kvm \
238 # -drive if=virtio,file=/path/to/fedora.img,format=qcow2 \
239 # -device vhost-vsock-pci,guest-cid=21
240 # guest listens on port 1234 and host connects to it
241 242 # guest connects to port 1234 and host connects to it
242 guest$ socat - vsock-listen:1234
243 host$ socat - vsock-connect:21:1234
244 // host (well known CID_HOST = 2) listens on port 4321 and guest connects to it
245 246 # host (well known CID_HOST = 2) listens on port 4321 and guest connects to it
246 host$ socat - vsock-listen:4321
247 guest$ socat - vsock-connect:2:4321
248 250 //application server solutions
249 // application server solutions
250 // run a program (here: /bin/sh) chrooted, unprivileged;
251 // parent process stays in real / running as root
252 # socat -d -d - EXEC:/bin/sh,chroot=/home/sandbox,su=sandbox,pty
253 256 // make a program available on the network chrooted, unprivileged;
254 // parent process stays in / running as root
255 // script path is already chrooted
256 # ./socat -l -d -d TCP-LISTEN:5555,fork EXEC:/bin/myscript,chroot=/home/sandbox,su=sandbox,pty,stderr
257 // to avoid terminal problems, you might - instead of telnet - connect using
258 $ socat -,icanon=0,echo=0 tcp:target:5555; reset
259 260 // access local display from ssh server, when ssh port forwarding is disabled
260 // socat must be installed on ssh server host
261 // might have to use xauth...
262 // this example is one-shot because ssh can handle only one channel
263 xterm1$ socat -d -d exec:"ssh www.dest-unreach.org rm -f /tmp/.X11-unix/X9; ~bin/socat -d -d unix-l:/tmp/.X11-unix/X9\,fork -" unix:/tmp/.X11-unix/X0
264 xterm2$ ssh target
265 target$ DISPLAY=:9 myxapplication
266 272 // touch with perms:
267 // no race condition for perms (applied with creat() call)
268 $ socat -u /dev/null creat:/tmp/tempfile perm=0600

```

```

275 276 // touch with owner and perms:
277 // race condition before changing owner, but who cares - only root may access
278 # socat -u /dev/nullcreat:/tmp/tempfile,user=user1,perm=0600
279 280 // invoke an interactive ssh with exec
281 // first example passes control chars (^C etc.) to remote server as usual
282 socat -,echo=0,raw exec:'ssh server',pty,setsid,ctty
283 // second example interprets control chars on local command line
284 socat -,echo=0,icanon=0 exec:'ssh server',pty,setsid,ctty
285 // afterwards, type "reset"!
286 287 // convince ssh to provide an "interactive" shell to your script
288 // three main versions for entering password:
289 // 1) from your TTY; have 10 seconds to enter password:
290 (sleep 10; echo "ls"; sleep 1) |socat - exec:'ssh server',pty
291 // 2) from XWindows (DISPLAY !); again 10 seconds
292 (sleep 10; echo "ls"; sleep 1) |socat - exec:'ssh server',pty,setsid
293 // 3) from script
294 (sleep 5; echo PASSWORD; echo ls; sleep 1) |./socat - exec:'ssh server',pty,setsid,ctty
295 296 297 // download with proxy CONNECT
298 // use echo -e if required for \
299 $ (echo -e "CONNECT 128.129.130.131:80 HTTP/1.0\n"; sleep 5; echo -e "GET
300 /download/file HTTP/1.0\n"; sleep 10) |socat -d -d -t 3600 - tcp:proxy:8080,crlf
301 302 // retrieve a file from an sshd site with sourceforge style entry menu;
303 // fill in your personal values; cat lets you enter your password (will be
304 // visible on screen)
305 $ (sleep 10; read pass; echo $pass; sleep 10; echo M; sleep 5; echo cat FILENAME; sleep 10) |./socat -d -d -ly - EXEC:'ssh -c 3des -l
USER cf.sourceforge.net',pty,setsid,ctty |tee FILENAME
306 307 // multicast community on local network: start the following command on all
308 // participating hosts; like a conference call:
309 # socat -d -d -d -d - udp-datagram:224.0.0.2:6666,bind=:6666,ip-add-membership=224.0.0.2:eth0,bindtodevice=eth0
310 // or
311 $ socat -d -d -d -d - udp-datagram:224.0.0.2:6666,bind=:6666,ip-add-membership=224.0.0.2:eth0
312 // possible reasons for failure:
313 // iptables or other filters (open your filters as required)
314 // packets leave via wrong interface (set route: ...)
315 // socket bound to specific address
316 317 //=====
318 // GENERIC FUNCTION CALLS
319 320 // ioctl(): open CD drive (given value valid on Linux)
321 // on my Linux system I find in /usr/include/linux/cdrom.h the define:
322 // #define CDROMEJECT 0x5309 /* Ejects the cdrom media */
323 // the following command makes something like ioctl(fd, CDROMEJECT, NULL)
324 // (don't care about the read error):
325 $ socat /dev/cdrom,o-nonblock,ioctl=void=0x5309 -
326 327 // setsockopt(): SO_REUSEADDR
327 // the following command performs - beyond lots of overhead - something like:
328 // myint=1; setsockopt(fd, SOL_SOCKET, SO_REUSEADDR, &myint, sizeof(myint))
329 $ socat -u udp-recv:7777,setssockopt-int=1:2:1 -
330 // setssockopt(): SO_BINDTODEVICE
331 // 333 // ways to apply SO_BINDTODEVICE without using the special socat address option
332 // so-bindtodevice:
333 // with string argument:
334 $ sudo ./socat tcp-1:7777,setssockopt-string=1:25:eth0 pipe
335 // with binary argument:
336 $ sudo ./socat tcp-1:7777,setssockopt-bin=1:25:x6574683000 pipe
337 340 =====
341 342 // not tested, just ideas, or have problems
342 // 343 344 // traverse firewall for making internal telnet server accessible for outside
343 // telnet client, when only outbound traffic (syn-filter) is allowed:
344 // on external client run "double server". this process waits for a
345 // connection from localhost on port 10023, and, when it is established, waits
346 // for a connection from anywhere to port 20023:
347 ext$ socat -d TCP-LISTEN:10023,range=localhost TCP-LISTEN:20023
348 // on internal server run double client:
349 int$ socat -d TCP:localhost:23 TCP:extclient:10023
350 // or, with socks firewall:
351 int$ socat -d TCP:localhost:23 SOCKS:socksserver:extclient:10023
352 // login with:
353 ext$ telnet localhost 20023
354 // you can make a double server capable of handling multiple instances:
355 ext$ socat -d TCP-LISTEN:10023,range=localhost,fork TCP-LISTEN:20023,reuseaddr
356 // access remote display via ssh, when ssh port forwarding is disabled
357 $ socat -d -d EXEC:"ssh target socat - UNIX:/tmp/.X11-unix/X0" TCP-LISTEN:6030
358 $ xclock -display localhost:30
359 // relay multiple webserver addresses through your firewall into your DMZ:
360 // make IP aliases on your firewall, and then:
361 # socat -d -d TCP-L:80,bind=fw-addr1,fork TCP:dmz-www1:80
362 # socat -d -d TCP-L:80,bind=fw-addr2,fork TCP:dmz-www2:80
363 // and for improved security:
364 # socat -d -d TCP-L:80,bind=fw-addr3,su=nobody,fork TCP:dmz-www3:80
365 // proxy an arbitrary IP protocol over your firewall (answers won't work)
366 # socat -d -d IP:0.0.0.150,bind=fwnonsec IP:sec-host:150,bind=fwsec
367 // proxy an unsupported IP protocol over your firewall, point to point
368 // end points see firewall interfaces as IP peers!
369 # socat -d -d IP:nonsec-host:150,bind=fwnonsec IP:sec-host:150,bind=fwsec
370 // note that, for IPsec, you might face problems that are known with NAT

```

From <<https://fossies.org/linux/socat/EXAMPLES>>

# Installing sybase central local disk

Thursday, January 13, 2022 10:58 PM

1. Download the ase1503\_client\_win32.zip file from [\\temenosgroup.com\wealth\software\tp\\_products\Sybase\15.0.3\PC\\_Client](\\temenosgroup.com\wealth\software\tp_products\Sybase\15.0.3\PC_Client)
2. Goto C:\d\Applications\ase1503\_client\_win32.zip\pcclient. Double click setupConsole

# Windows Build machines

Saturday, October 16, 2021 12:06 PM

Vmcmtvs2017  
temenosgroup\cmsbm  
000Temenos

Vmcmtvs2013  
Oams\cmsbm  
000cmsbm

# SED & VIM Advanced Commands

Friday, July 3, 2020 12:28 PM

<http://wiki.temenosgroup.com/display/TOOLS/Git+-+Developer>

<http://wiki/display/DEVWIKI/End+To+End+TA+Installation+and+Configuration+Process>

Deleting lines between two pattern matching: SED

```
sed '/^#/,,/^$/{/^#/!{/^\$/!d}' file.txt
```

/^#/,,/^\$/ will match all the text between lines starting with # to lines starting with \$. ^ is used for start of line character. \$ is a special character so needs to be escaped.

/^#/! means do following if start of line is not #

/^\\$/! means do following if start of line is not \$

d means delete

So overall it is first matching all the lines from ^# to ^\$ then from those matched lines finding lines that don't match ^# and don't match ^\$ and deleting them using d.

```
sed '/FROM_HERE/,/TO_HERE/{//p;d;}'
```

From <<https://www.unix.com/shell-programming-and-scripting/89484-delete-lines-between-two-patterns-without-deleting-second-pattern.html>>

Vi/vim Command-line Ranges

```
:help cmdline-ranges
```

Use marks. Set marks on the lines you found using regular expression and then provide range for your commands. For example to delete all lines between marks a and b

```
:'a,'b d
```

From <<http://vim.1045645.n5.nabble.com/How-to-find-delete-block-between-matching-lines-td5013041.html>>

For example, to delete everything between two matches, excluding the matching lines, execute

```
:/first regex/+1;/second regex/-1d
```

This will only the next block. If you want to delete all block, prefix the command with "g":

:g/first regex/+1;/second regex/-1d

From <<http://vim.1045645.n5.nabble.com/How-to-find-delete-block-between-matching-lines-td5013041.html>>

> This will only the next block. If you want to delete all

> block, prefix the command with "g":

>

> :g/first regex/+1;/second regex/-1d

From <<http://vim.1045645.n5.nabble.com/How-to-find-delete-block-between-matching-lines-td5013041.html>>

:g/first regex/<range><command>

From <<http://vim.1045645.n5.nabble.com/How-to-find-delete-block-between-matching-lines-td5013041.html>>

:g/re1/?re2?+1;/re3/-1d

From <<http://vim.1045645.n5.nabble.com/How-to-find-delete-block-between-matching-lines-td5013041.html>>

# Oracle Break Locks & Kill Sessions

Friday, July 3, 2020 12:29 PM

To identify the session, write the following SQL statement:

```
select a.sid, a.serial#

from v$session a, v$locked_object b, dba_objects c

where b.object_id = c.object_id

and a.sid = b.session_id

and OBJECT_NAME='EMP';
```

To kill the session and unlock the tables, write the following statement:

```
SQL>alter system kill session 'sid, serial#';
```

Another option to fix this error in Oracle 11g is to make your table read-only to prevent DML.

Take the following SQL statement example:

```
SQL> alter table emp add (cust_id varchar2(3));
```

To alter the session table, execute the following:

```
SQL>alter table emp read only;
```

```
SQL> alter table emp add (cust_id varchar2(3));
```

Another solution in Oracle 11g is to create a timeout to set how long you want DDL to wait for the object to become available . To set a timeout, write the following statement:

```
SQL> alter session set ddl_lock_timeout = time_to_wait;
```

```
SQL> alter table emp add (cust_id varchar2(3));-----
```

There are several options for tables or views to see locks and specific information about the locks:

DBA\_BLOCKERS: Shows non-waiting sessions holding locks being waited on

DBA\_DDL\_LOCKS: Shows all DDL locks held or being requested

DBA\_DML\_LOCKS: Shows all DML locks held or being requested

DBA\_LOCK\_INTERNAL: Displays 1 row for every lock/latch held or being requested with the username of who is holding lock

DBA\_LOCKS: Shows all locks/latches held or being requested

DBA\_WAITERS: Shows all sessions waiting on but not holding waited for locks

# Linux Monitoring & Performance Commands

Monday, July 13, 2020 9:51 AM

1. # iotop
2. # htop
3. # netstat -a | more
4. # tcpdump -l eth0
5. # lsof
6. # iftop - Displays frequently list of network bandwidth utilization
7. # nmon
8. # collectl
- 9.

## Gwpack installation

Thursday, July 16, 2020 11:14 PM

GWP Installation: <https://confluence.temenos.com/pages/viewpage.action?pageId=40457305>  
WTX Installation: <https://confluence.temenos.com/pages/viewpage.action?pageId=40456863>

WTX Designer & MMS files download

<https://lausvn.temenosgroup.com/svn-devel/products/TA/tags/25.4.07/gateway/>  
[https://wealth.temenosgroup.com/t\\_products/IBM/ITX/9.0/](https://wealth.temenosgroup.com/t_products/IBM/ITX/9.0/)  
<https://lausvn.temenosgroup.com/svn-devel/products/TA/tags/25.4.07>

/cygdrive/c/IBM/WebSphere Transformation Extender 8.4.1->/dtxcmdsv64.exe -?- Open up eclipse based help document

./aaa\_subd -Uaaa -d 1 -h /tap/CIP\_LX\_VM/gwpack/config/GWPACK\_Subscription\_Query.test.cfg -a /tap/CIP\_LX\_VM/gwpack/config/Subscription\_Attfile.run.att -r /tap/CIP\_LX\_VM/gwpack/config/GWPACK\_Registry.mrc -B 0

```
dev@blirmfapplx01:/oams/tap_ebcy/gwpack/testfiles> ps -ef | grep aaa_subd
dev 17372 17354 0 18:42 pts/4 00:00:02 /oams/tap_ebcy/aaa/current/bin/Linux/aaa_subd -Uaaa -d 1 -h /oams/tap_ebcy/gwpack/config/GWPACK_Subscription_Query.ORACLE.cfg -a /oams/tap_ebcy/gwpack/config/Subscription_Attfile.run.att -r /oams/tap_ebcy/gwpack/config/GWPACK_Registry.mrc -B 0
```

```
utp 24875 24798 0 06:56 ? 00:00:00 /bin/ksh /data/tap/TAP_UTP/aaahome/bin/Linux/gwp_subscription.sh -Uaaa -d 1 -h /data/temenos/GWP/gwpack/config/GWPACK_Subscription_Query.ORACLE.cfg -a /data/temenos/GWP/gwpack/config/Subscription_Attfile.run.att -r /data/temenos/GWP/gwpack/config/GWPACK_Registry.mrc -B 0
```

```
utp 24896 24875 0 06:56 ? 00:00:02 /data/tap/TAP_UTP/aaahome/bin/Linux/aaa_subd -Uaaa -d 1 -h /data/temenos/GWP/gwpack/config/GWPACK_Subscription_Query.ORACLE.cfg -a /data/temenos/GWP/gwpack/config/Subscription_Attfile.run.att -r /data/temenos/GWP/gwpack/config/GWPACK_Registry.mrc -B 0
```

# Rolitd Testing, Client server, rpc commands

Tuesday, October 26, 2021 5:49 PM

## Server Side

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> export ROLIT_PROGRAM=21015
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome>
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> set -o vi
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa ROLIT -Uaaa -Paaaaaaaa -MTripleA
AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_rolit.sh -Uaaa
```

## Client Side

```
export ROLITTEST_BIN=rolittest
export ROLIT_PROGRAM=21015
```

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa ROLIT -Uaaa -Paaaaaaaa -MTripleA </0120_Cash_Instrument.imp
AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_rolit.sh -Uaaa
SET BUSINESS_ENTITY MASTER
SET QUOTE NONE
SET SEPARATOR ;
SET DECIMAL.
SET THOUSAND ,
SET DATAFORMAT DELIMITED
SET DATEFORMAT DD-MM-YYYY
SET PREFIX DATA DAT
```

REM Are inserted by installation : to be reimporrted after clean-up

```
SET BUSINESS_ENTITY MASTER
CMD INSUPD instrument
ATT nature_e code denom ref_curr_id.code
SUC 4;EUR;Euro Cash Account;EUR
SUC 4;CHF;CHF Cash account;CHF
SUC 4;USD;USD Cash account;USD
```

To show all of the RPC services registered on the local machine use:

```
$> rpcinfo
```

To show all of the RPC services registered with rpcbind on the machine named laulxcmt2 use:

```
$> rpcinfo laulxcmt2
```

```
$> rpcinfo -s laulxcmt2
```

To delete the registration for version 1 of the walld (program number 100008 ) service for all transports use:

```
$> sudo rpcinfo -d 100008 1 or rpcinfo -d walld 1
```

```

[aaa@myserver Linux]$ rpcinfo -p
 program vers proto port service
 100000 4 tcp 111 portmapper
 100000 3 tcp 111 portmapper
 100000 2 tcp 111 portmapper
 100000 4 udp 111 portmapper
 100000 3 udp 111 portmapper
 100000 2 udp 111 portmapper
 21016 1 tcp 39181
 21018 1 tcp 43381
 21019 1 tcp 58530
[aaa@myserver Linux]$ netstat -anp|grep 58530
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
[aaa@myserver Linux]$ sudo rpcinfo -d 21019
Usage: rpcinfo [-m | -s] [host]
 rpcinfo -p [host]
 rpcinfo -T netid host prognum [versnum]
 rpcinfo -l host prognum versnum
 rpcinfo [-n portnum] -u | -t host prognum [versnum]
 rpcinfo -a serv_address -T netid prognum [version]
 rpcinfo -b prognum versnum
 rpcinfo -d [-T netid] prognum versnum
[aaa@myserver Linux]$ sudo rpcinfo -d 21019 1
[aaa@myserver Linux]$ rpcinfo -p
 program vers proto port service
 100000 4 tcp 111 portmapper
 100000 3 tcp 111 portmapper
 100000 2 tcp 111 portmapper
 100000 4 udp 111 portmapper
 100000 3 udp 111 portmapper
 100000 2 udp 111 portmapper
 21016 1 tcp 39181
 21018 1 tcp 43381
[aaa@myserver Linux]$ sudo rpcinfo -d 21016 1
[aaa@myserver Linux]$ sudo rpcinfo -d 21018 1
[aaa@myserver Linux]$ rpcinfo -p
 program vers proto port service
 100000 4 tcp 111 portmapper
 100000 3 tcp 111 portmapper
 100000 2 tcp 111 portmapper
 100000 4 udp 111 portmapper
 100000 3 udp 111 portmapper
 100000 2 udp 111 portmapper

```

aaa@vmlaulxora1:/oams/CIP\_LX\_ORA\_JB1/aaahome> rpcbind  
 rpcbind: another rpcbind is already running. Aborting

```

/oams/int_e2e_sql/aaa/current->rpcinfo -p
 program vers proto port service
 100000 4 tcp 111 portmapper
 100000 3 tcp 111 portmapper
 100000 2 tcp 111 portmapper
 100000 4 udp 111 portmapper
 100000 3 udp 111 portmapper
 100000 2 udp 111 portmapper
 100005 1 udp 20048 mountd
 100021 1 tcp 42892 nlockmgr
 100021 3 tcp 42892 nlockmgr
 100021 4 tcp 42892 nlockmgr
 536879104 1 tcp 39707

```

```

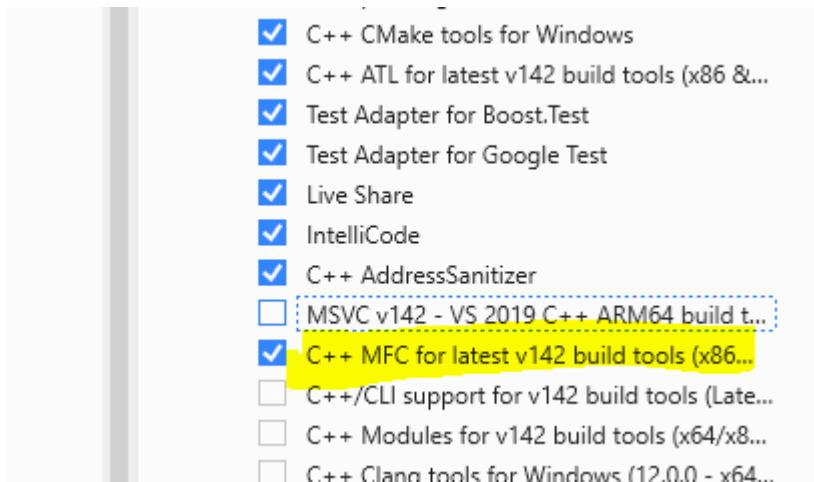
/oams/int_e2e_sql/aaa/current->netstat -anp |grep 111
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
tcp 0 0 0.0.0.0:111 0.0.0.0:* LISTEN -

```

```
tcp6 0 0 :::111 :::* LISTEN -
udp 0 0 0.0.0.0:111 0.0.0.0:*
udp6 0 0 :::111 :::* -
unix 2 [ACC] STREAM LISTENING 41112 - private/smtp
unix 2 [ACC] STREAM LISTENING 41115 - private/relay
unix 2 [ACC] STREAM LISTENING 41118 - public/showq
unix 3 [] STREAM CONNECTED 41117 -
unix 2 [] STREAM CONNECTED 111616245 20124/java
unix 3 [] STREAM CONNECTED 41113 -
unix 3 [] STREAM CONNECTED 41116 -
unix 3 [] STREAM CONNECTED 111624278 20124/java
unix 2 [] DGRAM 115211177 4515/DataFlowEngine
unix 3 [] STREAM CONNECTED 111624277 20124/java
unix 3 [] STREAM CONNECTED 41119 -
unix 3 [] STREAM CONNECTED 41111 -
unix 3 [] STREAM CONNECTED 41114 -
unix 2 [] STREAM CONNECTED 111569393 20124/java
unix 3 [] STREAM CONNECTED 41110 -
```

# Visual Studio Issues

Thursday, November 18, 2021 5:08 PM



## Wget utility (http API execution)

Wednesday, July 22, 2020 10:46 AM

```
wget --tries=3 --timeout=seconds --wait=seconds --user=user --password=password
```

```
wget --tries=3 --timeout=seconds --wait=seconds --http-user=user --http-password=password --no-cache --no-cookies
```

```
wget --tries=3 --timeout=60 --wait=60 --http-user=hla --http-password=laxmish --no-cache --no-cookies http://127.0.0.1:21015/rpc/get_version
```

```
wget --ignore-tags=a,area -H -k -K -r http://<site>/<document>
```

To enable the audit in Database - Dba\_audit\_trail

# Tnsnames & Listener configurations

Tuesday, September 1, 2020 12:24 PM

1. Listener.ora is required to configure all the services, ip address and the port numbers. By default, it will pick up the values from the server.
2. Check the /etc/hosts to get the ip address
3. tnsping <service name> - Tells whether the services are running
4. Use the ip address instead of hostname.

## Oracle Instant Client and ODBC Drivers

Monday, September 7, 2020 1:38 PM

[9/7/2020 1:27 PM] Mauricio Dos Santos:

<https://www.oracle.com/database/technologies/instant-client/downloads.html>

### 1 ODBC Instant Client for Windows

ODBC Instant Client offers all the functionality of the Oracle 12c ODBC driver, except Oracle Services for Microsoft Transaction Server, without the need for a traditional ORACLE\_HOME installation. See *Oracle Call Interface Programmer's Guide* for information on OCI Instant Client.

#### 1.1 Installing ODBC Instant Client

- Download the Basic Instant Client and ODBC Instant Client packages from the [Oracle Technology Network Instant Client page](#). The two packages must be unzipped into same directory. For example, C:\Oracle\instantclient\_12\_1.
  - Basic Instant Client is a prerequisite for installing the ODBC Instant Client.
  - ODBC Instant Client package has the following file/DLLs

File name	Description
sqora32.dll	Driver DLL
sqoras32.dll	Driver setup DLL
sqresus.dll	Resource DLL
sqresja.dll	Japanese resource DLL
ODBC_IC_Readme_Win.html	ODBC Instant Client for Windows readme (this file)
sqora.htm	Help file
odbc_install.exe	ODBC Instant Client install script
odbc_uninstall.exe	ODBC Instant Client un-install script.

- Make sure Basic Instant Client is deployed before running the ODBC install script.
  - Unzip the ODBC Instant Client package, then execute the odbc\_install script.
    - By default English(US) DLLs, files will be installed.
    - To install the Japanese version ODBC Driver, mention the JA option with install script.
      - C:\Oracle\instantclient\_12\_1> odbc\_install JA
    - The ODBC install script will check for *oci.dll*, *oraciei11.dll*, *orannzsbb11.dll* at present directory. If any of these DLLs are missing, installation will fail.
    - Oracle Instant Client directory (present directory) name will be part of the driver name in registry.
      - Driver name will be "Oracle in instantclient\_12\_1".
  - After the installation the environment needs to be configured in the following way.
    - Add the directory to the PATH system environment variable.
      - Otherwise ODBC manager will be not able to load/find the driver.
    - Define the TNS\_ADMIN environment variable to point the .ora files directory for OCI.
- This must be set for OCI to resolve the TNS name.
- If TNS\_ADMIN is not set, OCI will examine an operating system dependent set of directories to find *tnsnames.ora*. This search path includes looking in the directory %ORACLE\_HOME%/network/admin/tnsnames.ora. This is the only reason to set the ORACLE\_HOME environment variable for Oracle Instant Client. If ORACLE\_HOME is set when running Instant Client applications, it must be set to a directory where Instant Client exists (in this case C:\Oracle\instantclient\_12\_1). If ORACLE\_HOME is not set, then looks in current directory for tnsnames.ora.
- Set any Oracle globalization variables required for your locale. See the *Oracle Database Globalization Support Guide* for more information.
- For example on Windows to set NLS\_LANG:  
□ set NLS\_LANG=JAPANESE\_JAPAN.JA16EUC
- #### 1.2 Uninstalling ODBC Instant Client
- Do the following steps to un-install:
- Run the odbc\_uninstall script
  - It will delete the Driver entry in registry.
  - It will delete the installed Oracle ODBC Driver files.
  - Reset any environment variables such as PATH and TNS\_ADMIN.
- #### 1.3 Bugs Fixed
- Please refer to ODBC Release Notes.

# BLRFS1 - Shared documents url

30 June 2023 11:45

[BLR-FS1 - TAPDEV - All Documents \(sharepoint.com\)](#)

## ssh login issues

Tuesday, September 8, 2020 1:19 PM

```
ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 hla@vmlaulxtools2
/home/laxmishhegde->ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 hla@vmlaulxtools2
hla@vmlaulxtools2's password:
Last login: Thu Aug 27 07:57:57 2020 from laulxcm2.temenosgroup.com

If wrong server IP entry is there in the ~/.ssh/known_hosts.

Host bnglxaaa01.temenosgroup.com not found in C:\Users\laxmishhegde\ssh\known_hosts
/home/laxmishhegde->ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 hla@vmlaulxtools2
Host bnglxaaa01 found: line 43
C:\Users\laxmishhegde\ssh\known_hosts updated.
Original contents retained as C:\Users\laxmishhegde\ssh\known_hosts.old
/home/laxmishhegde->

=====
/cydrive/c/EDS/maven/apache-maven-3.6.1/conf->ssh cmsbm@aulxcm
Unable to negotiate with 10.20.51.134 port 22: no matching host key type found. Their offer: ssh-rsa,ssh-dss
/cydrive/c/EDS/maven/apache-maven-3.6.1/conf->ssh -oHostKeyAlgorithms=+ssh-rsa cmsbm@aulxcm
cmsbm@aulxcm's password:

=====
```

You can also add a host pattern in your ~/.ssh/config so you don't have to specify the key algorithm every time:  
Host nas  
HostName 192.168.8.109  
HostKeyAlgorithms=ssh-dss

From <<https://askubuntu.com/questions/836048/ssh-returns-no-matching-host-key-type-found-their-offer-ssh-dss>>

```
=====
```

```
ssh -o KexAlgorithms=diffie-hellman-group1-sha1 -oHostKeyAlgorithms=+ssh-dss laulxcm
```

From <<https://askubuntu.com/questions/836048/ssh-returns-no-matching-host-key-type-found-their-offer-ssh-dss>>

Create file config in /users/laxmishhegde/.ssh

Make the content as

```
Host *
 HostName 10.20.51.134
 HostKeyAlgorithms +ssh-dss
 PubkeyAcceptedKeyTypes +ssh-dss
 KexAlgorithms diffie-hellman-group1-sha1
```

```
Host laulxcm
 HostName 10.20.51.134
 HostKeyAlgorithms +ssh-dss
 PubkeyAcceptedKeyTypes +ssh-dss
 KexAlgorithms diffie-hellman-group1-sha1
```

```
Host vmlaulxtools2
 HostName 10.30.4.82
 HostKeyAlgorithms +ssh-dss
 PubkeyAcceptedKeyTypes +ssh-dss
 KexAlgorithms diffie-hellman-group1-sha1
```

```
Host lauldomcm1
 HostName 10.30.4.94
 HostKeyAlgorithms +ssh-dss
 PubkeyAcceptedKeyTypes +ssh-dss
 KexAlgorithms diffie-hellman-group1-sha1
```

=====

Generation of public key and copy into bitbucket

The screenshot shows the Bitbucket account settings page. On the left sidebar, 'SSH keys' is selected. The main area displays two SSH keys:

Label	Key
hla@vmlaulxtools2.temenosgroup.com	ssh-rsa AAAAB3NzaC1yc2EAAAQABwAAAQEAxu/XlgVUmy4wj1CX2WqqZBqNr9tIZBo0c0FL3clqNDkGBCBbvevWUDuP7854S21AjS36dPj4MFic3BMQ+nVOPZxE1MfWLPg0TdkKoJyUZLvsyDfOsdfWch...
laxmishhegde@LF4JZYD3	ssh-rsa AAAAB3NzaC1yc2EAAAQABAAABgQCzko4VzqoyInsnPwzDzYzNK9+lr5gEm+rmmMcG183isIeLN/RkWLFr3051CgVkr17GCtsa89oYGN8XQ44Zn9bs2vcOPVZTGNs54RUrJHS4prVbQZM3ni...

Below the keys, it says "Bitbucket's RSA fingerprints: MD5:08:edd46:52:25:d6:ea:140:cad197:bf:8d:4e SHA256:BEGHzHx2K38BgncLsoPWXtp+jIPradHY7keww37wE".

## /c/Users/laxmishhegde/.ssh->ssh-keygen

Generating public/private rsa key pair.

Enter file in which to save the key (/c/Users/laxmishhegde/.ssh/id\_rsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /c/Users/laxmishhegde/.ssh/id\_rsa

Your public key has been saved in /c/Users/laxmishhegde/.ssh/id\_rsa.pub

The key fingerprint is:

SHA256:jAcKEkrmkTDI/Owg36MGNXLYi3jgaU9YvsKqpCxBAbc laxmishhegde@LF4JZYD3

The key's randomart image is:

+---[RSA 3072]---

|=o . |

|.\*.o |

|.BE ..|

|OB\*B..o |

|BB+o=S. |

|+=o+ |

|o=. . |

|B. o. |

|==+. . |

+---[SHA256]---

=====

/c/Users/laxmishhegde/.ssh->ls -al

```
total 53K
drwxr-xr-x 1 laxmishhegde 1049089 0 Mar 20 15:06 .
drwxr-xr-x 1 laxmishhegde 1049089 0 Mar 20 14:20 ..
-rw-r--r-- 1 laxmishhegde 1049089 2.6K Mar 20 15:06 id_rsa
-rw-r--r-- 1 laxmishhegde 1049089 575 Mar 20 15:06 id_rsa.pub
-rw-r--r-- 1 laxmishhegde 1049089 5.2K Mar 20 10:51 known_hosts
-rw-r--r-- 1 laxmishhegde 1049089 5.0K Mar 20 10:50 known_hosts.old
/c/Users/laxmishhegde/.ssh->cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAABgQCzko4VzqoyInsnPwzDzYzNK9+lr5gEm+rmmMcG183isIeLN/RkWLFr3051CgVkr17GCtsa89oYGN8XQ44Zn9bs2vcO PVZTGNs54RUrJHS4prVbQZM3ni...
```

ssh-rsa AAAAB3NzaC1yc2EAAAQABAAABgQCzko4VzqoyInsnPwzDzYzNK9+lr5gEm+rmmMcG183isIeLN/RkWLFr3051CgVkr17GCtsa89oYGN8XQ44Zn9bs2vcO PVZTGNs54RUrJHS4prVbQZM3ni...

+3G62Q3xh8FPhnog3nVwfrfeyD0hqu0Thlh25P4vQNCPymtHpVpujOL8MDMyspfxW7yggc5Q974Qu4cn9MEVPEbVnll012lM+n/UD4jVoUef9J9WeTQcyNg vhs8lKK1wsksnDLea5gc6p0Crm6fpz7oJfJftPbvimbFEM+0tWrf6x1dp503ykZtkf8R+S8

+RGlv36MUhf1Db0U58MKTUe12yYeVfEMGd2odIXOnUmtyf4BKML2+wFpDQuYiuVqYRHNxpcJcmxWZaj5KDnfDm7UPsus/9pmNxQfOeAkkQUszywClzb1LAve z1tx3hCjhVQisEu54QCR2dxLdaGSTia+c laxmishhegde@LF4JZYD3

=====

Account settings  
Change password  
Sonar  
Notification settings  
Watched repositories  
**SSH keys**  
GPG keys  
HTTP access tokens  
Authorized applications

## SSH keys [Add key](#)

Use SSH keys to connect simply and safely to repositories

Label	Key
hla@vmlaulxtools2.temenosgroup.com	ssh-rsa AAAAB3NzaC1yc2EAAAQEAxu/XlqVUmy4wj1CX2Wq
laxmishhegde@LF4JZYD3	ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQgQCzko4Vzqoy/nsnPwD

Bitb  
MD5:0leddd4i  
SHA256:8EGHwHX2K

### Add public key

Key\*

[Read our help doc for creating SSH keys](#)

[Add key](#) [Cancel](#)

# Gwpack TTI UDF fields addition - - AAASERVICE

05 July 2023 13:07

1. Bring up financial server
2. Export variable in aaaprofile as below

```
AAASERVICE=:LRSERV,aaa_rs_serv:LPROPS,aaa_rs_properties:LRSYNC,aaa_rs_synchro:LRADMCMD,aaa_rs_admin_command:GWPACKLAUNCHER,gwp_launcher.sh:GWPACKM
ERCATOR,gwp_mercator.sh:GWPACKSUBSCRIPTION,gwp_subscription.sh
export AAASERVICE
```

3. Bring up the launcher
4. cd \$GWPACK\_HOME/scripts
5. >/GWPACK\_F2B\_CreateUDF.sh
6. >/GWPACK\_TTI\_CreateUDF.sh
7. >/GWPACK\_TTI\_Att.sh
8. >/GWPACK\_TTI\_Att\_ESP.sh
9. >/GWPACK\_TTI\_CreateUDF\_ESP.sh

```
AAASERVICE=:LRSERV,aaa_rs_serv:LPROPS,aaa_rs_properties:LRSYNC,aaa_rs_synchro:LRADMCMD,aaa_rs_admin_command:GWPACKLAUNCHER,gwp_launcher.sh:GWPACKMERCAT
OR,gwp_mercator.sh:GWPACKSUBSCRIPTION,gwp_subscription.sh
export AAASERVICE
```

```
>/oams/sd_abn/wtx_launcher/bin/launcher /oams/sd_abn/gwpack/current/systems/GWPACK_F2B_MM_FX_Return.msl /oams/sd_abn/gwpack/cu
rrent/systems/GWPACK_F2B_Return.msl /oams/sd_abn/gwpack/current/systems/GWPACK_Position.msl -s7000,7001,7002 -d=/oa
ms/sd_abn/wtx_launcher/logs/CompoundSystem06-26-24-04-59-32-PM.log' -L='/oams/sd_abn/wtx_launcher/logs/CompoundSystem0
6-26-24-04-59-32-PM.txt' -N='/oams/sd_abn/wtx_launcher/config/dtx.ini'
```

# Sybase altering the DB - Add

Friday, February 18, 2022 5:32 PM

# OCS Checkout in Bit Bucket

Monday, September 14, 2020 1:12 PM

Step1: Select Repository OCS

Step 2: Select clone

Step 3: Select the url ssh from the clone.

Step 4: Right click git clone. Give the selected http url.

```
Laxmishhegde@L43SD2X2 MINGW64 /w/OCS
$ git clone https://bitbucket.temenos.com/scm/~laxmishhegde/ocs.git
Cloning into 'ocs'...
remote: Enumerating objects: 1314, done.
remote: Counting objects: 100% (1314/1314), done.
remote: Compressing objects: 100% (1044/1044), done.
Receiving objects: 83% (184882/221663), 172.81 MiB | 3.66 MiB/s
```

Git clone --progress -v "<https://bitbucket.temenos.com/scm/~laxmishhegde/ocs.git>" "w:\OCS\25.4.09.A01"

# GNU Library Notes

Monday, September 21, 2020 9:21 AM

[http://www.gnu.org/savannah-checkouts/gnu/libc/manual/html\\_node/index.html#SEC\\_Contents](http://www.gnu.org/savannah-checkouts/gnu/libc/manual/html_node/index.html#SEC_Contents)

## Echogat.lnx Execution

Tuesday, September 22, 2020 2:26 PM

```
1. Create import file
REM Message FIX version FIX.4.4
SET QUOTE NONE
SET DECIMAL .
SET SEPARATOR ;
SET DATEFORMAT DD-MM-YYYY
SET DATFORMAT DELIMITED
SET AUTOMATIC_FUSION ON

CMD UPDATE ext_operation
ATT code_order_rejection_c_order_rejection_d status_e
DAT D1015911005;99:25/02/2020 08:43:13;15;
ERR 24 Unable to update record
FLH

REM Message FIX version FIX.4.4
SET QUOTE NONE
SET DECIMAL .
SET SEPARATOR ;
SET DATEFORMAT DD-MM-YYYY
SET DATFORMAT DELIMITED
SET AUTOMATIC_FUSION ON

CMD UPDATE ext_operation
ATT code_order_rejection_c_order_rejection_d status_e
DAT D1002081084;KEEP_DV;KEEP_DV;70;
FLH

SET QUOTE NONE
SET DECIMAL .
SET SEPARATOR ;
SET DATEFORMAT DD-MM-YYYY
SET DATFORMAT DELIMITED
SET AUTOMATIC_FUSION ON

CMD UPDATE event_status
ATT id request_status_e
DAT 774:30;
ERR 31 Unable to update record - There must be one (and only one) ext_order per code
FLH

REM Message FIX version FIX.4.4
SET QUOTE NONE
SET DECIMAL .
SET SEPARATOR ;
SET DATEFORMAT DD-MM-YYYY
SET DATFORMAT DELIMITED
SET AUTOMATIC_FUSION ON

CMD UPDATE event_status
ATT id error_info_error_reason_e request_status_e
DAT 673;ExecType(150);0;KEEP_DV;50;
CMD UPDATE ext_operation
ATT code_order_rejection_c_order_rejection_d status_e
DAT D1002081084;KEEP_DV;KEEP_DV;70;
FLH
2. ./data/aaa/current/gateway/output>aaa MERCATOR /data/aaa/current/gateway/maps/Linux/echogat.lnx -If1 /data/aaa/current/tmp/test.imp -OAGATIT1 \'libgatit.so,DLLImpPort,'Online -U aaa -Paaaaa'\'
3. echogat.lnx.output will be generated under this path /data/aaa/current/gateway/output

/data/aaa/current/gateway>output>aaa MERCATOR /data/aaa/current/gateway/maps/Linux/echogat.lnx -If1 /data/aaa/current/tmp/test.imp -OAGATIT1 \'libgatit.so,DLLImpPort,'On
line -U aaa -Paaaaa'\'
AAAHOME is /data/aaa/current
Executing /data/aaa/current/bin/Linux/mercator.sh /data/aaa/current/gateway/maps/Linux/echogat.lnx -If1 /data/aaa/current/tmp/test.imp -OAGATIT1 'libgatit.so,DLLImpPort,
Online -U aaa

IBM WebSphere Transformation Extender(TM) Linux Command Server - version 9.0.0.2(65)
Copyright 1998, 2017 IBM Corporation. All rights reserved.

Map File: /data/aaa/current/gateway/maps/Linux/echogat.lnx -If1 /data/aaa/current/tmp/test.imp -OAGATIT1 'libgatit.so,DLLImpPort,Online -U aaa -Paaaaa'

In # 1: 1 Out # 1: 1 Time: 0:00 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:00
In # 1: 1 Out # 1: 1 Time: 0:00
Map could not complete (9): Target not available (0.169 seconds)

Error detected in running map, exiting.

/data/aaa/current/gateway>output>ls
dummy.txt FixToTap.output
/data/aaa/current/gateway>ls -ltr
total 196
-rwxrwxr-x. 1 tapuser tapuser 1 Oct 25 10:12 dummy.txt
-rw-rw-r--. 1 tapuser tapuser 191131 Mar 3 04:34 FixToTap.output

4. Invoke Subscription
./aaa_subd -Uaaa -d 1 -h /tap/CIP_LX_VM/gwpack/config/GWPACK_Subscription_Query.test.cfg-a /tap/CIP_LX_VM/gwpack/config/Subscription_Atfile.run.att-r /tap/CIP_LX_VM/gwpack/config/GWPACK_Registry.mrc-B 0

5. Executing the xml through the mercator script:
dev@bngtapix3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current> aaa MERCATOR /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echo.lnx -If1 /
/oams/v_txl_25_e2e/GWPACK/gwpack/testfiles/20040719.101655_CURRENCY_Infra.xml -OAGATIT1 '\libgatit.so,DLLImpPort,'Online -U aaa -Paaaaaa'\'
AAAHOME is /oams/v_txl_25_e2e/aaa/current
Executing /oams/v_txl_25_e2e/aaa/current/bin/Linux/mercator.sh /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echo.lnx

IBM Transformation Extender Linux Command Server - version 10.1.1.1(8)
(c) Copyright IBM Corporation 2006, 2022 All rights reserved.

Map file: /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echo.lnx -If1 /oams/v_txl_25_e2e/GWPACK/gwpack/testfiles/20040719.101655_CURRENCY_Infra.xml -OAGATIT1 'libgatit.so,DLLImpPort,Online -U aaa -Paaaaaa'
In # 1: 1 Out # 1: 1 Time: 0:01 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:01
In # 1: 1 Out # 1: 1 Time: 0:01
Map completed (0): Map completed successfully (1.325 seconds)
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current> aaa MERCATOR /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v_txl_25_e2e/GWPACK/gwpack/testfiles/20040719.101655_CURRENCY_Infra.xml -OAGATIT1 '\libgatit.so,DLLIMPort,'Online -U aaa -Paaaaaa'\'
AAHOME is /oams/v_txl_25_e2e/aaa/current
Executing /oams/v_txl_25_e2e/aaa/current/bin/Linux/mercator.sh /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echogat.lnx
```

IBM Transformation Extender Linux Command Server - version 10.1.1.1(8)  
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```
Map file: /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v_txl_25_e2e/GWPACK/gwpack/testfiles/20040719.101655_CURRENCY_Infra.xml -OAGATIT1 '\libgatit.so,DLLIMPort,Online -U aaa -Paaaaaa'
In # 1: 1 Out # 1: 1 Time: 0:01 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:01
In # 1: 1 Out # 1: 1 Time: 0:01
Map completed (0): Map completed successfully (1.143 seconds)
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux> ls -lrt echogat*
-rwxr--r-- 1 dev dba 858 Nov 7 02:01 echogat.lnx
-rw-rw-r-- 1 dev dba 65627 Nov 9 11:30 echogat.I01
-rw-rw-r-- 1 dev dba 619 Nov 9 11:30 echogat.mtr
-rw-rw-r-- 1 dev dba 3774 Nov 9 11:30 echogat.log
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux>
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output> ls -lrt echogat*
-rw-rw-r-- 1 dev dba 743 Nov 9 11:30 echogat.lnx.output
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output>
```

```
Using gattest.so
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output> aaa MERCATOR /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v_txl_25_e2e/GWPACK/gwpack/import/20221109_114107_00001_Infra-Online-testCountry.imp -OAGATIT1 '\libgatatest.so,DLLIMPort,'Online -U aaa -Paaaaaa'\'
AAHOME is /oams/v_txl_25_e2e/aaa/current
Executing /oams/v_txl_25_e2e/aaa/current/bin/Linux/mercator.sh /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echogat.lnx

IBM Transformation Extender Linux Command Server - version 10.1.1.1(8)
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```

```
Map file: /oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux/echogat.lnx -IF1 /oams/v_txl_25_e2e/GWPACK/gwpack/import/20221109_114107_00001_Infra-Online-testCountry.imp -OAGATIT1 '\libgatatest.so,DLLIMPort,Online -U aaa -Paaaaaa'
In # 1: 1 Out # 1: 1 Time: 0:02 Auditing Data
In # 1: 1 Out # 1: 1 Time: 0:02
In # 1: 1 Out # 1: 1 Time: 0:02
Map completed (0): Map completed successfully (1.220 seconds)
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output>
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output> ls -lrt
total 24
-rwxr--r-- 1 dev dba 1 Nov 7 03:11 dummy.txt
-rw-rw-r-- 1 dev dba 743 Nov 9 11:20 echo.lnx.output
-rw-rw-r-- 1 dev dba 2156 Nov 9 11:43 echogat.lnx.output
-rw-rw-r-- 1 dev dba 376 Nov 9 11:46 GWPACKTRY_0_20221109_114107_00001_Infra-Online-testCountry-.output
-rw-rw-r-- 1 dev dba 376 Nov 9 11:47 GWPACKTRY_0_20221109_114107_00001_Infra-Online-testCountry-.output.548851667974631649244.tmp
-rw-rw-r-- 1 dev dba 376 Nov 9 11:48 GWPACKTRY_0_20221109_114107_00001_Infra-Online-testCountry-.output.60682166797468768643.tmp
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output>
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output> cat GWPACKTRY_0_20221109_114107_00001_Infra-Online-testCountry-.output.60682166797468768643.tmp
```

```
REM Global SET Lines
REM XML_Description :

SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET THOUSAND ,
REM ****
REM Infra-Country-Country
CMD INSUPD geographic
ATT code country_f currency denom DISCARD name

SUC TEST_COUNTRY;1;KEEP_DV;TEST_COUNTRY;KEEP_DV;TEST_COUNTRY;;;
FLH
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/output>
```

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux> ls -lrt
total 160
-rwxr--r-- 1 dev dba 814 Nov 7 02:01 echo.lnx
-rwxr--r-- 1 dev dba 858 Nov 7 02:01 echogat.lnx
-rw-rw-r-- 1 dev dba 65627 Nov 9 11:20 echo.I01
-rw-rw-r-- 1 dev dba 613 Nov 9 11:20 echo.mtr
-rw-rw-r-- 1 dev dba 3762 Nov 9 11:20 echo.log
-rw-rw-r-- 1 dev dba 65627 Nov 9 11:48 echogat.I01
-rw-rw-r-- 1 dev dba 619 Nov 9 11:48 echogat.mtr
-rw-rw-r-- 1 dev dba 3819 Nov 9 11:48 echogat.log
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/gateway/maps/Linux>
```

#### Content of echogat.log

```
> <CustomTimeZone switch="OFF"></CustomTimeZone>
<SlidingCentury switch="OFF"></SlidingCentury>
<CustomValidation switch="OFF"></CustomValidation>
<Retry switch="OFF"></Retry>
<BurstRestart switch="OFF"></BurstRestart>
<Warnings type="Every" action="Warn"></Warnings>
</MapSettings>
<DataSettings>
<InputData card="1" CardMode="Integral" WorkArea="!Reuse">
 <Backup switch="OFF"></Backup>
 <Source adapter="File" OnSuccess="Keep" OnFailure="Rollback" Scope="Map" Warnings="Ignore">
 <Resource>/oams/v_txl_25_e2e/GWPACK/gwpack/import/20221109_114107_00001_Infra-Online-testCountry.imp</Resource>
 <Retry switch="OFF"></Retry>
 </Source>
</InputData>
<OutputData card="1">
 <Backup switch="OFF"></Backup>
 <Target adapter="Gatit [Odyssey]" OnSuccess="Create" OnFailure="Rollback" Scope="Map" Warnings="Ignore">
 <Resource>libgattest.so,DLLImport,Online -U aaa -Paaaaaa</Resource>
 <Retry switch="OFF"></Retry>
 </Target>
</OutputData>
</DataSettings>
</MapAudit>
```

libgatt.%LIBGATIT\_EXTENSION%,DLLImport,Online -U %GWPACK\_AAAUSER% %GWPACK\_ONLINE\_IMPORT\_OPTIM%

## Oracle: Recent Table Modification Details

28 November 2022 12:29

```
SQL> alter session set nls_date_format='DD-MM-YYYY HH24:MI:SS';

SQL> select * from dba_tab_modifications where table_name='PERF_ATTRIB_DATA';

SQL> exec DBMS_STATS.FLUSH_DATABASE_MONITORING_INFO;

SQL> select a.* , a.INSERTS,a.UPDATES,a.DELETES,a.TRUNCATED,a.TIMESTAMP from dba_tab_modifications a where a.TABLE_NAME='STANDARD_PERF_DATA'-- and
TABLE_OWNER='AAAMAINDB';
```

TABLE_OWNER	TABLE_NAME	PARTITION_NAME	SUBPARTITION_NAME	INSERTS	UPDATES	DELETES	TIMESTAMP	TRUNCATED	DROP_SEGMENTS	INSERTS_1	UPDATES_1	DELETES_1	TRUNCATED_1	TIMESTAMP_1
1 AAAMAINDB	STANDARD_PERF_DATA	(null)	(null)	8	0	4	28-11-22 NO		0	8	0	4 NO	28-11-22	

```
9 | select a.* , a.INSERTS,a.UPDATES,a.DELETES,a.TRUNCATED,a.TIMESTAMP from dba_tab_modifications a
10 | where a.TABLE_NAME in ('STANDARD_PERF_DATA','PERF_ATTRIB_DATA','RET_ANALYSIS_DETAILED','RET_ANALYSIS_GLOBAL')-- and TABLE_OWNER='AAAMAINDB';
|:
```

Script Output X Query Result X

All Rows Fetched: 4 in 0.027 seconds

TABLE_OWNER	TABLE_NAME	PARTITION_NAME	SUBPARTITION_NAME	INSERTS	UPDATES	DELETES	TIMESTAMP	TRUNCATED	DROP_SEGMENTS	INSERTS_1	UPDATES_1	DELETES_1	TRUNCATED_1	TIMESTAMP_1
1 AAAMAINDB	STANDARD_PERF_DATA	(null)	(null)	8	0	4	28-11-2022 07:20:23 NO		0	8	0	4 NO	28-11-2022 07:20	
2 AAAMAINDB	PERF_ATTRIB_DATA	(null)	(null)	16	0	8	28-11-2022 07:20:23 NO		0	16	0	8 NO	28-11-2022 07:20	
3 AAAMAINDB	RET_ANALYSIS_GLOBAL	(null)	(null)	7	0	0	28-11-2022 07:20:23 NO		0	7	0	0 NO	28-11-2022 07:20	
4 AAAMAINDB	RET_ANALYSIS_DETAILED	(null)	(null)	14	0	7	28-11-2022 07:20:23 NO		0	14	0	7 NO	28-11-2022 07:20	

# Git-bitbucket commands-rebase

01 December 2022 13:24

```
git.exe checkout -f 0113ec891867cd61a2333734ca489d6a29e0a366 --
Start Rebase
```

```
git.exe commit --allow-empty-message -C 90b806158388c5829c5d27e89c5ac80185a86385
```

```
git add/rm <pathspec>
git cherry-pick --continue
```

```
git.exe commit --allow-empty-message -C 82c13b2b4247f882477948e3c53e563a3a780cfa
```

```
git.exe checkout -f -B feature/27.8.0.performance 4cf396233a399ebc4d6b7adae7879cede600bc35 --
git.exe reset --hard 4cf396233a399ebc4d6b7adae7879cede600bc35 --
```

## Type Tree Generation in WTX

Wednesday, September 30, 2020 7:21 PM

1. All the bat file in /cygdrive/w/TA/25.4.07.A01/gateway/DataStage/TypeTree Builder, modify TERR to T+ for detailed trace
2. Windows <CR><LF> mismatch with Unix <CR>

### Metafile.log

```
<SourceReport card="1" adapter="DB" bytes="605" adapterreturn="0">
<Message>Success</Message>
<Settings>SOURCE CIP_LX_VM_ORA-MDQ metadict.mdq -QUERY metadict -VAR ENTITY=address -T+</Settings>
<TimeStamp>19:12:42 September 30, 2020</TimeStamp>
</SourceReport>

<SourceReport card="2" adapter="File" bytes="352" adapterreturn="0">
<Message>Data read successfully</Message>
<Settings>W:\TA\25.4.07.A01\gateway\DataStage\TypeTree Builder\..\Lookups\AddBusKey.txt</Settings>
<TimeStamp>19:11:26 September 30, 2020</TimeStamp>
</SourceReport>
```

### Metafile.mtr

```
(Level 2: Offset 0, len 6, comp 1 of 4, #1, DI 000000000001:) X'0006' (Entity_name Column metadict Data).
Data at offset 0 ('sector') was found to be of TYPE
(Level 2: Offset 7, len 29, comp 2 of 4, #1, DI 000000000002:) X'0008' (Datatype_name Column metadict Data).
Data at offset 7 ('parent_sector.co...') was found to be of TYPE
 X'0007' (Attribute_name Column metadict Data).
(Level 2: Offset 37, len 18, comp 3 of 4, #1, DI 000000000003:) X'0009' (widget_e Column metadict Data).
Data at offset 37 ('id_t<LF>sector_attr...') was found to be of TYPE
(Level 2: Offset 56, len 22, comp 4 of 4, #1, DI 000000000004:) X'000A' (Row metadict Data).
Data at offset 56 ('sector.codificat...') failed item presentation test for TYPE
 X'0009' (widget_e Column metadict Data).
(Level 2: Offset 56, len 22, comp 4 of 4, #1, DI 000000000004:) of TYPE X'0004' (Row metadict Data).
Data at offset 56 ('sector.codificat...') is INVALID data of TYPE
 X'0009' (widget_e Column metadict Data).
(Level 1: Offset 78, len 0, comp 1 of 1, #1, DI 000000000005:) occurrence 1 is optional and does not exist.
Data at offset 78 ('id_t<LF>sector_att...') does not match TERMINATOR '<CR><LF>'
(Level 1: Offset 0, len 0, comp 1 of 1, #1, DI 000000000001:) COMPONENT number 1 of TYPE X'0003' (DBSelect metadict Data):
COMPONENT number 1 of TYPE X'0003' (DBSelect metadict Data):
INPUT 2 exists (352 bytes) but has no content.
End of Validation messages for INPUT CARD 2.
```

In the above case, input card2, AddBusKey.txt needs to run unix2dos as below:

```
>unix2dos AddBusKey.txt
```

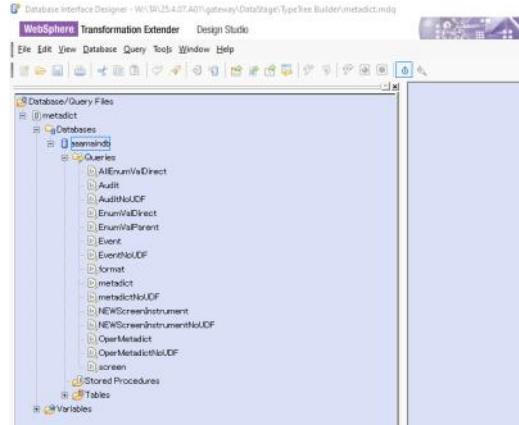
## Database Interface Designer - Issues

Monday, October 5, 2020 12:23 PM

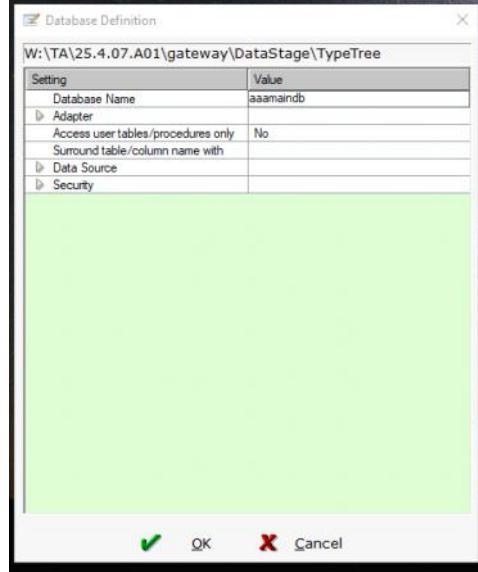
- Ctrl-D opening new database dialogue not working.

Solution: If two monitors(physical screens) are used, popup is dragged into screen 2, DID will keep the reference like that. Next time again new DB connection is clicked, it will open in new screen only. It will not open in the single monitor.

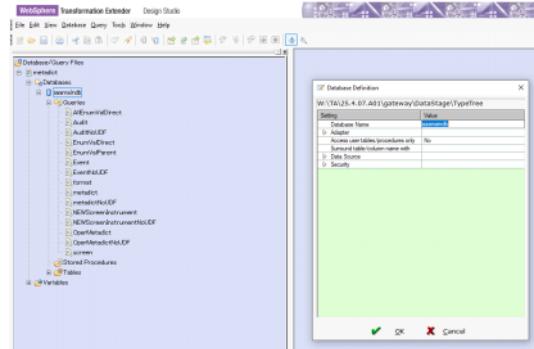
Screen 1:



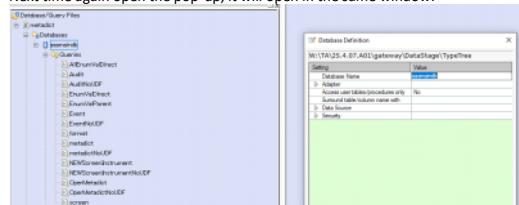
Screen 2:

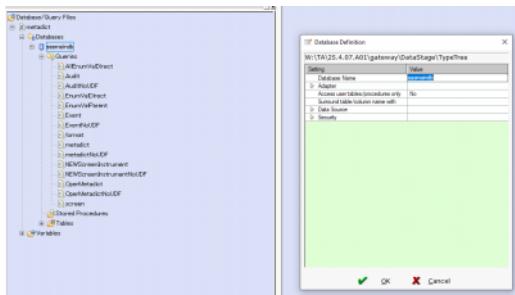


Keep both main window and the popup (dialogue) in the main window to solve this issue.



Next time again open the pop-up, it will open in the same window:





This is true for all the pop-ups. Like queries, tables, stored procedures, Views

# Cash Portfolio Management Fusion

Friday, October 16, 2020 7:24 PM

1. Set CASH\_ADJUSTMENT parameter as 1
2. Cash\_adjustment=1 at portfolio level
3. Link cash portfolio at the operation level
4. All the amounts Acct1 net amount must be populated

On modification of the operation, there will be new entry into event\_scheduler

## Global Pre-comp fin-function setup for Formats

Sunday, October 18, 2020 9:09 AM

### I. All the batch service properties configurations found in:

```
tasc-services/tsl-config/src/main/resources/META-INF/batch/common
tasc-services/tsl-config/src/main/resources/META-INF/config/otf-registry-extension.xml
=====
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB3/ocshome/temp/ocs-config-files> ls
local-ehcache.xml otf-cache.xml otf-security.xml quartz-data-default.xml xdi.xml
otf-joblauncher-config.xml otf-check.xml otf-services.xml wui-config.properties
operator.properties otf-messaging_folder.xml otf-shell-exec.xml wui-corda-config.xml
otf-audit.xml otf-monitoring.xml otf-shell-processes.xml wui-scripted-pageflow-config.xml
=====
applicationContext-tsl-fc-internals.xml contains the mapping jobType to queue name.
=====
```

Important Fixes in precomp-fin-function and knowledge details:

- All the tsl jobs are configured in tasc-services/tsl-config/src/main/resources/META-INF/config/otf-registry-extension.xml (OCS-52802)  
<entry key="oams.tsl.globalCacheUpdateMode" expression="invalidate" description="Update mode for global cache, either invalidate or recompute" flags="EXTENSION" />
- OCS-49362,
- Other examples for reference: <http://rd.temenosgroup.com/browse/PCC-23511>, <http://rd.temenosgroup.com/browse/ARCH-535>, <http://rd.temenosgroup.com/browse/OCS-37383>

Step1: Added this in ./ddl/src/tsl\_prec\_p.usr.sql

```
#EXEC link_format_to_precomp
@name = 'PCK_TCIB_PERF_GRAPH',
@job_type_e = 1,
@entity_sqlname_c = null,
@priority_n = 1,
@format_list = 'PCK_TCIB_PERF_GRAPH',
@id_mapping_attribute = 'portfolio_id',
@screen = "PCK_TCIB_DOMAIN_CONTEXT",
@from_where = null,
@filter = null,
@chunk_size = 50,
@job_queue = 'default_precomp_job_queue'
go
```

Step2: Ran below commands

```
./install_ddl.sh d_ora_wscaaa d_ora_wscaad_ora_wscaaa manager tsl obj d_ora_wsc default_charset
./install_ddl.sh d_ora_wscaaa d_ora_wscaad_ora_wscaaa manager tsl prec d_ora_wsc default_charset
./install_ddl.sh d_ora_wscaaa d_ora_wscaad_ora_wscaaa manager tsl search d_ora_wsc default_charset
```

Step3:

```
Running precomp
http://bngtapi2.asia.temenosgroup.com/oams/d_ora_wsc/ocs/current/admin> ./otf-shell.sh -f otf-shell/precomp-entity.otf-shell
```

Step 4 :  
submit-bpi-job -DprecompJobName=PCK\_TCIB\_PERF\_GRAPH -DentityDimCode=PCK\_DS\_ALL\_ACT\_PTF -w tsl-precomp-fin-function-job.xml

Got error on domain for a IC "TA input control error on attribute currency.code : The currency is mandatory if the function is launched on a forced currency."

```
{PMSTA-27489(PRO-139)-SUC- Excluding allocate order function- 8th June 2017}
IF(def_curr_f = 0 AND
 currency_id = NULL AND
 NOT(function_dict_id.parent_function_dict_id.proc_name IN ("portfolio_storage","alloc_ord","bench_storage","edit_alloc_cstr","edit_strat_obj","disp_compl_chrono")) {PMSTA-22355-added display compliance chrono}
{then},
 MSG(ERROR, "currency_id",1,"DOM_FORCED_CURR",NULL) { PMSTA07295 - change "User Message" to "System Message"}
{end if});
```

Temporally made def\_curr\_f = 1 in Default values.(reverted the screen now)

Ran the job it failed for 2 portfolios. (excluded them from LIST with script active\_f=1 AND NOT(code IN ( "T\_AI\_APA\_PTF\_S04","T\_AI\_APA\_PTF\_S03")))

Ran the job to success. A valid global cache can be seen via  
select tjt.table\_name,tj.\* from  
aaamaindb.tasc\_job tj,  
aaamaindb.tasc\_job\_table tjt  
where -id = 2037 and  
tjt.job\_id=tj.id  
and tj.validity\_e in (0, 1)  
and tj.database\_name='PERMTSLDB'

Enabled debug traces and made the call from odata

```
GET https://bngtapi2.asia.temenosgroup.com:19151/remoting/odata/tcib.svc/Portfolios('T_AI_PTF1')/performanceGraph?$orderby=init_d%20asc%20%20%20$filter=domainLoadHierarchy%20eq%20'No'
HTTP/1.1
Accept-Encoding: gzip,deflate
Authorization: Basic UE1fTWFuYWdlcjoxMjM0NTY=
x-channel: PCK_TCIB_PM_DESKTOP
Content-Type: application/json
Accept: application/json
Host: bngtapi2.asia.temenosgroup.com:19151
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
```

However the key is not matching hence global cache is not picked.

**Key from request:**

Key from DB:

0|0||1

-----tsl\_trace.log

1. The identification is based on domain.\_hash\_key and Domain.\_full\_key from tasc\_job\_table.
  2. The domain.\_full\_key is based on SEL\_ALL\_DICT\_FUNC\_ATT (from AAAAMAINDB.dict\_function\_attribute where key\_encoding is Yes) select \* from AAAAMAINDB.dict\_function\_attribute dfa where function\_dict\_id = 61 and key\_encoding\_e = 1;
  3. The screen PCK\_TCIB\_DOMAIN\_CONTEXT is used across WSO so the same screen is associated in cache.

- In the current key there are 3 attributes that

  - 4. Comp\_level\_e from UXP it is 2 and in job it is 1
  - 5. Dim\_entity\_dict\_id it is 119 in UXP and in the job 400

```
{PMSTA-27489(PRO-139)-SUC- Excluding allocate order function- 8th June 2017}
IF(def_curr_f = 0 AND
 currency_id = NULL AND
 NOT(function_dict_id.parent_function_dict_id.proc_name IN ("portfolio_storage","alloc_ord","bench_storage","edit_alloc_cstr","edit_strat_obj","disp_compl_chrono")) {PMSTA-22355-added display compliance chrono}
{then},
 MSG(ERROR,"currency_id",1,"DOM_FORCED_CURR",NULL) { PMSTA07295 - change "User Message" to "System Message"}
{end if};
```

# Running maps on the command prompt

01 April 2023 11:35

```
cd /oams/sybedmb/sybase/current
.SYBASE.sh
wtx
.setup
imdi
cd maps
dstx IMDI_Subscription mmc -IF1 ffa.bck
```

From <<http://rd.temenosgroup.com/browse/DMMOM-1114?jql=text%20~%20%22Sybase%20Context%20Allocation%20Error%22>>

# Unix: Trace file written to process

04 November 2022 13:14

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/msg> sudo lsof error.log
[sudo] password for dev:
```

COMMAND	PID	USER	FD	TYPE	DEVICE	SIZE/OFF	NODE NAME
aaa_imp64	43713	dev	11w	REG	253,8	68464855	817752655 error.log
aaa_imp64	92289	dev	452w	REG	253,8	71637646	817752655 error.log
aaa_imp64	93400	dev	11w	REG	253,8	72124520	817752655 error.log

```
dev@bngtaplx3.asia.temenosgroup.com:/oams/v_txl_25_e2e/aaa/current/msg> kill -9 43713 92289 93400
```

---

## TTI Commands

03 February 2023 14:46

```
/gfsdata/opt/tti/ttiserver/bar ->mqapplybaroverride -b TTI.bar -m "temenos.tti.f2b.F2B_MQtoT24#T24Outbound.ejbConnectionProperties=T24ConnectionVariant=MQCONNECT|T24MqName=queue:///T24.F2B.OFS.QUEUE|T24MqHost=10.98.64.200|T24MqPort=1415|T24MqChannel=GWP_CHL|T24MqManager=TTI_QMGR|T24ReplyMqName=queue:///T24.F2B.OFS.REPLY.QUEUE|T24JmsTimeout=1800000" -r > tti_bar.log
/gfsdata/opt/tti/ttiserver/bar ->cat tti_bar.log
BIP1138I: Applying overrides using runtime mqapplybaroverride...
BIP1140I: Overriding property temenos.tti.f2b.F2B_MQtoT24#T24Outbound.ejbConnectionProperties with 'T24ConnectionVariant=MQCONNECT|T24MqName=queue:///T24.F2B.OFS.QUEUE|T24MqHost=10.98.64.200|T24MqPort=1415|T24MqChannel=GWP_CHL|T24MqManager=TTI_QMGR|T24ReplyMqName=queue:///T24.F2B.OFS.REPLY.QUEUE|T24JmsTimeout=1800000' in 'TTI.appzip/META-INF/broker.xml' ...
BIP1141I: Overriding property temenos.tti.f2b.F2B_MQtoT24#T24Outbound.ejbConnectionProperties with 'T24ConnectionVariant=MQCONNECT|T24MqName=queue:///T24.F2B.OFS.QUEUE|T24MqHost=10.98.64.200|T24MqPort=1415|T24MqChannel=GWP_CHL|T24MqManager=TTI_QMGR|T24ReplyMqName=queue:///T24.F2B.OFS.REPLY.QUEUE|T24JmsTimeout=1800000' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1143I: Saving Bar file TTI.bar...

BIP0071I: Successful command completion.
/gfsdata/opt/tti/ttiserver/bar ->mqsideploy TTI_NODE -e TTIServer -a TTI.bar > TTI.bar deploy.log
/gfsdata/opt/tti/ttiserver/bar ->cat TTI.bar deploy.log
BIP1039I: Deploying BAR file '/gfsdata/opt/tti/ttiserver/bar/TTI.bar' to integration node 'TTI_NODE' (integration server 'TTIServer') ...
BIP9332I: Application 'TTI' has been changed successfully.
BIP1092I: The deployment request was processed successfully.
/gfsdata/opt/tti/ttiserver/bar ->mqsistop TTI_NODE
```

```
INF - 2023-02-03 11:18:41.566 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 1e49dbc0-97f0-4dai-96f0-a50fd9037146 - Message discarader because old image = new image
INF - 2023-02-03 11:18:48.811 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 06e0ld04-3a78-4b11-8002-5e8d2d9a9b6f - Message discarader because old image = new image
INF - 2023-02-03 11:18:55.463 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 2d2d48b5-fde9-4695-88c4-ac0872b409e8 - Message discarader because old image = new image
INF - 2023-02-03 11:19:59.487 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 4c89af62-a211-4a14-9c63-2ae4af7f78ce - Message discarader because old image = new image
INF - 2023-02-03 11:20:03.950 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 1717a398-893c-46ba-8c30-d30c2acc9c7a - Message discarader because old image = new image
INF - 2023-02-03 11:20:06.027 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 802442cf-94c2-4b57-9933-69d374504f70 - Message discarader because old image = new image
INF - 2023-02-03 11:20:11.123 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 0a21e7c5-fd80-4972-b1b8-aa722d17d771 - Message discarader because old image = new image
INF - 2023-02-03 11:20:13.046 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 95cf2f02-1759-4ad7-9635-9c2ae8e3850e - Message discarader because old image = new image
INF - 2023-02-03 11:20:17.977 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 07e771c5-1cle-4066-b9ae-7d4bc91ab162 - Message discarader because old image = new image
INF - 2023-02-03 11:20:19.767 - TTI_NODE - TTIServer - TTI - BatchMultiOrderGroupingCutOffDateChange - 09af4e96-624b-4a31-9aa6-3ae4bec30650 - Message discarader because old image = new image
/gfsdata/opt/tti/ttiserver/log ->
```

```
-rw-rw----. 1 msgi mqbrkr 40350 Feb 3 11:54 20230203_115456_667_55_msgin_BatchMultiOrderGroupingCutOffDateChange_02661b72-4795-457a-8a26-a0c9a40f7223.xml
rw-rw----. 1 msgi mqbrkr 59171 Feb 3 11:54 20230203_115456_667_55_msgin_BatchMultiOrderGroupingCutOffDateChange_173dba4a-db36-4fcc-b72e-f18a42ef2e24.xml
rw-rw----. 1 msgi mqbrkr 31066 Feb 3 11:55 20230203_115502_386_55_msgin_BatchMultiOrderGroupingCutOffDateChange_173dba4a-f18a42ef2e24.xml
rw-rw----. 1 msgi mqbrkr 13508 Feb 3 11:55 20230203_115534_573_62_msgin_F2B-Order-I200000090.xml
rw-rw----. 1 msgi mqbrkr 2528 Feb 3 11:55 20230203_115535_199_63_adapterin_F2B-Order-I200000090.xml
rw-rw----. 1 msgi mqbrkr 20846 Feb 3 11:56 20230203_115602_610_55_msgin_BatchMultiOrderGroupingCutOffDateChange_163664e8-15aa-4022-8534-b549806f5032.xml
rw-rw----. 1 msgi mqbrkr 33605 Feb 3 11:56 20230203_115605_014_55_msgin_BatchMultiOrderGroupingCutOffDateChange_029b3b10-dc5f-4cba-f5f8-f08f2439f8cc.xml
rw-rw----. 1 msgi mqbrkr 43841 Feb 3 11:56 20230203_115608_610_55_msgin_BatchMultiOrderGroupingCutOffDateChange_0a954f2b-815e-4ff0-aa00-9b958a6429a.xml
rw-rw----. 1 msgi mqbrkr 38731 Feb 3 11:56 20230203_115610_817_55_msgin_BatchMultiOrderGroupingCutOffDateChange_0fad94c7-b3dd-42a3-a2cc-cf2afaeb171.xml
rw-rwx--x. 2 msgi mqbrkr 3064 Feb 3 11:56 MSGIN_BatchMultiOrderGroupingCutOffDateChange_0fad94c7-b3dd-42a3-a2cc-cf2afaeb171.xml
gfsdata/opt/tti/ttiserver/trace ->
```

# Logon trigger, autonomous transaction

19 May 2023 22:23

```
CREATE OR REPLACE TRIGGER DDL_LOG_TRIGGER
BEFORE ALTER OR AUDIT OR CREATE OR DROP OR GRANT OR RENAME OR REVOKE
ON SCHEMA
DECLARE
PRAGMA AUTONOMOUS_TRANSACTION;

BEGIN INSERT INTO drsdba.ddl_log
SELECT ora_sysevent, ora_dict_obj_owner,
ora_dict_obj_name, ora_dict_obj_type, USER, SYSDATE, SYS_CONTEXT('USERENV', 'OS_USER'),
SYS_CONTEXT('USERENV', 'HOST'),
SYS_CONTEXT('USERENV', 'TERMINAL')
FROM dual;
commit;
raise_application_error(-20000, 'You are not authorized to execute this command. Please contact your
DBA');
END;
```

From <[https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11\\_QUESTION\\_ID:49818662859946](https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11_QUESTION_ID:49818662859946)>

```
=====
ops$tkyte%ORA10GR2> create user b identified by b default tablespace users quota unlimited on users;
User created.
ops$tkyte%ORA10GR2>
ops$tkyte%ORA10GR2> grant create session to a;
Grant succeeded.
ops$tkyte%ORA10GR2> grant
 2 create session
 3 , create table
 4 , create any trigger
 5 , administer database trigger to b;
Grant succeeded.
ops$tkyte%ORA10GR2>
ops$tkyte%ORA10GR2> connect b/b
Connected.
b%ORA10GR2> create table user_log(msg varchar2(30));
Table created.
b%ORA10GR2>
b%ORA10GR2> create or replace trigger logon_audit after logon on a.schema
 2 begin
 3 insert into b.user_log values ('user ' || user || ' logged');
 4 end;
 5 /
Trigger created.
b%ORA10GR2>
b%ORA10GR2> connect a/a
Connected.
a%ORA10GR2> connect b/b
Connected.
b%ORA10GR2> select * from user_log;
MSG

user A logged
be wary of those "ANY" and "ADMINISTER" privileges - probably you want to lock the B account after this
```

From <[https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11\\_QUESTION\\_ID:49818662859946](https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11_QUESTION_ID:49818662859946)>

```
ops$tkyte%ORA10GR2> create or replace trigger after_logon_ip_trigger
 2 AFTER LOGON ON DATABASE
 3 BEGIN
 4 DBMS_APPLICATION_INFO.set_module(module_name =>'this is my module',action_name =>'this is my action');
```

```

5 DBMS_APPLICATION_INFO.set_client_info('this is my client info');
6 end;
7 /
Trigger created.
ops$tkyte%ORA10GR2> exit
Disconnected from Oracle Database 10g Enterprise Edition Release 10.2.0.2.0 - Production
With the Partitioning, OLAP and Data Mining options
[tkyte@tkyte-pc j]$ cat test.java
import java.sql.*;
class test
{
public static void main(String args[])throws Exception
{
 DriverManager.registerDriver
 (new oracle.jdbc.driver.OracleDriver());
 System.out.println("-----");
 Connection conn=DriverManager.getConnection
 ("jdbc:oracle:thin:@tkyte-pc.us.oracle.com:1521:ora10gr2"
 , "ops$tkyte","fadf");
 System.out.println("-----");
 PreparedStatement pstat =
 conn.prepareStatement
 ("select client_info, action, module from v$session where username = user");
 System.out.println("-----");
 ResultSet rset = pstat.executeQuery();
 while(rset.next())
 {
 System.out.println("ci = " + rset.getString(1));
 System.out.println("action = " + rset.getString(2));
 System.out.println("module = " + rset.getString(3));
 }
 rset.close();
}
}

```

From <[https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11\\_QUESTION\\_ID:49818662859946](https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11_QUESTION_ID:49818662859946)>

# Oracle jdbc logging

16 August 2023 17:54

Javanet tracing ability:

JDBC - Version 10.2.0.1 to 11.1.0.7 [Release 10.2 to 11.1]  
Oracle Database - Enterprise Edition - Version 19.13.0.0.0 to 19.13.0.0.0 [Release 19]  
Information in this document applies to any platform.

## GOAL

The Oracle JDBC thin driver uses a java based implementation of the SQLNET protocol (JavaNet layer).

Unlike the JDBC OCI driver, the SQLNET trace is not available with the JDBC thin driver at the client side for Oracle JDBC Driver versions < 11.2. Therefore, to diagnose JDBC connection or other database related error conditions, only the SQLNET server side trace is available. As a result, it can be difficult to get a good understanding of the problem with only one end of the equation.

This article describes how to enable a similar sqlnet client trace with the JDBC thin driver. This can be done by using a new utility (packaged as a JAVA jnettrace.jar library), the *JavaNet utility*, which allows tracing of the JavaNet layer.

This utility, attached to the article, is available on OTN:

<http://www.oracle.com/technetwork/database/enterprise-edition/jnettrace.jar>

- The instructions in this document apply to JDK versions 8 and earlier. Please refer to [Document:401934.1 Starting With Oracle JDBC Drivers - Installation, Certification, and More!](#) for JDBC and JDK certified combinations.
- From release 11.2 and forward , the JDBC Thin Driver includes a network trace capability. Please refer to [Document: 1050942.1 How to Trace the Network Packets Exchanged Between JDBC and the RDBMS.](#)

## SOLUTION

The JavaNet trace utility provides a way to perform non-intrusive JDBC tracing : it can be executed on a different machine than the one hosting the JDBC driver application. This feature might be interesting in production environments when enabling this trace.

JDK 5 (or greater) version must be used when executing the JavaNet utility.

[Document 609.1 \(oracle.com\)](#)

 **11g and Newer: ORA-609 TNS-12537 and TNS-12547 or TNS-12170 in DB Alert.log (Doc ID 1116960.1)**

### In this Document

[Symptoms](#)  
[Changes](#)  
[Cause](#)  
[Solution](#)  
[References](#)

## APPLIES TO:

Oracle Net Services - Version 11.1.0.6 and later  
Oracle Database - Enterprise Edition - Version 12.1.0.2 and later  
Information in this document applies to any platform.  
The issue documented here is limited in scope to 11g and newer releases.

## SYMPTOMS

The following errors are intermittently posted to the alert.log of a database instance that is at or newer than 11gR1. All releases that are newer than 11g would be affected.

```
TNS-12547: TNS: Lost contact
ORA-609 Opidcr Aborting Process Unknown Ospid <nnnn>
```

```
TNS-12537: TNS: Connection closed
ORA-609 Opidcr Aborting Process Unknown Ospid
```

The simplest solution to this problem is to increase the setting for INBOUND CONNECT TIMEOUT at the server (database) sqlnet.ora. The default directory location for this parameter file is in \$RDBMS\_HOME/network/admin and NOT the Grid home. The default setting for the SQLNET.INBOUND\_CONNECT\_TIMEOUT parameter is 60 seconds. When an intermittent ORA-609 is occurring, we generally recommend increasing the setting to 120.

e.g.

Sqlnet.ora at RDBMS\_HOME/network/admin (not GRID)

SQLNET.INBOUND\_CONNECT\_TIMEOUT=120

There is NO need to restart either the database or the listener after this change has been made.

The next server process that is spawned will reference the change.

If the RDBMS is running on a Windows server, please reference the troubleshooting found in [Note: 987162.1](#) as well as this note.

It can be somewhat challenging to determine the origin of the client that is causing the error. Often we find that the 609 is caused by a client that drops the connection before it's completed at the database. This is especially true with JDBC thin where an "outbound" connection timer might be in place.

When the error is being thrown intermittently, it is likely that an increase in the INBOUND CONNECT TIMEOUT setting will resolve most of the ORA-609s. It is not likely that an intermittent 609 is caused by some DB performance or any listener performance issue.

These settings are in seconds. Again, the default is 60. A setting of 120 seconds should resolve most if not all ORA-609 errors.

As explained in the Cause section, The ORA-609 error is thrown when a client connection of any kind failed to complete or aborted the connection process, so ORA-609 and TNS- errors are expected.

**If the issue persists and inbound connect does not have any effect, the following steps are intended to help locate the client that may be causing the errors.**

- 1) Suppress the TNS errors in the alert.log by setting the following sqlnet.ora file parameter:

sqlnet.ora file (on the server): DIAG\_ADR\_ENABLED = OFF

This should result in the TNS errors being posted to the \$ORACLE\_HOME/network/log/sqlnet.log file that is local to the database and may yield useful information about the client's address.

For example, here's a snippet from a server side sqlnet.log where client address information was posted:

```
Production Time: 15-FEB-2010 07:15:01
Fatal NI connect error 12537, connecting to:
(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=yourhost)(Port=1521))(CONNECT_DATA=(SID=PROD1DR)(CID=(PROGRAM=sqlplus)(HOST=client_host)(USER=client))))
```

Observe the PROGRAM and HOST fields on the last line. This is where the connection originated.

Be sure to match timestamps in the sqlnet.log with the timestamps of the alert.log errors. Once you've located the offending client, you can enable client tracing to try and determine the cause. Add the following parameters to the sqlnet.ora file that would be referenced by the client.

```
TRACE_LEVEL_CLIENT=16
TRACE_DIRECTORY_CLIENT=<dir location>
TRACE_TIMESTAMP_CLIENT=TRUE
DIAG_ADR_ENABLED=off <====Use this only with 11g and newer clients
```

If you need assistance with client or server tracing, please open an SR with Global Customer Support.

- 2) Check the listener.log for client connections that were logged at timestamps that match the ORA-609 timestamps as they appear in the alert.log. The client information is recorded in each listener.log entry. Since this error occurs AFTER the listener has handled the connection, do not expect to see errors in the listener.log.

Here's an example snippet of an incoming client connection that was posted to the listener.log:

```
20-JAN-2009 17:08:45 (CONNECT_DATA=(SID=orcl)(CID=(PROGRAM=D:\oracle\product\10.1.0\Db_1\perl\5.6.1\bin\MSWin32-x86\perl.exe)(HOST=myclient))
```

Note that the exact timestamp, program name and client host will often be recorded. Again, once you've located the offending client, enable tracing (see above) to try to capture the connection failure.

- 3) Enable server side Oracle Net tracing and capture the TNS error along with the incoming connection. Match the PID that accompanies the ORA-609 to the server trace label `ORA-609`

3) Enable server side Oracle Net tracing and capture the TNS error along with the incoming connection.  
Match the PID that accompanies the ORA-609 to the server trace label. e.g.

ORA-609 : oiodr aborting process unknown ospid (4799\_1) \*Note the PID

This PID would correspond to server trace labeled: svr\_4799.trc. Check the server trace for either TNS error (the 609 will not appear) and try to locate the originating client address. If assistance is needed for this investigation, please open an SR with Oracle Support.

See below for instructions on enabling Oracle Net server tracing.

#### **The following details the discovery of the source of an ORA-609 for a real case:**

The alert.log reports the following messages intermittently but frequently:

```
Mon Nov 16 22:39:22 2009
ORA-609 : oiodr aborting process unknown ospid (nnnn)
```

Enabled Oracle Net server tracing in the sqlnet.ora file that would be referenced by the instance where the ORA-609 is being thrown.

```
TRACE_LEVEL_SERVER=16
TRACE_DIRECTORY_SERVER=<dir location>
TRACE_TIMESTAMP_SERVER=TRUE
DIAG_ADR_ENABLED=off
```

It's important to note that in GRID installations, the instance or database would reference .ora files in RDBMS\_HOME/network/admin by default. Versus GRID\_HOME.

```
ORA-609 : oiodr aborting process unknown ospid (5233_1)
```

Note that the server trace file set that corresponded to this event was named **svr\_5233\*.trc**.  
Of course the timestamps of the alert.log event and the server trace creation matched as well.

A review of the server trace showed only an EOF failure and the TNS-12537 error:

```
Read unexpected EOF ERROR
nserror: nsres: id=0, op=68, ns=12537
```

In this particular case, there was no information about the client in the trace. This is atypical for a server trace. It may be that the client aborted before all the client information was posted to the file. However, there was post in the listener.log for an emagent connection that was established at the same point in time.

[Document Display \(oracle.com\)](#)

#### **☆ How to Perform the Equivalent of SQL\*Net Client Tracing with Oracle JDBC Thin Driver Releases Prior to 11.2 (Doc ID 793415.1)**

##### **In this Document**

[Goal](#)  
[Solution](#)  
[References](#)

##### **APPLIES TO:**

JDBC - Version 10.2.0.1 to 11.1.0.7 [Release 10.2 to 11.1]  
Oracle Database - Enterprise Edition - Version 19.13.0.0.0 to 19.13.0.0.0 [Release 19]  
Information in this document applies to any platform.

##### **GOAL**

The Oracle JDBC thin driver uses a java based implementation of the SQLNET protocol (JavaNet layer).

Unlike the JDBC OCI driver, the SQLNET trace is not available with the JDBC thin driver at the client side for Oracle JDBC Driver versions < 11.2. Therefore, to diagnose JDBC connection or other database related error conditions, only the SQLNET server side trace is available. As a result, it can be difficult to get a good understanding of the problem with only one end of the equation.

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This utility, attached to the article, is available on OTN:

<http://www.oracle.com/technetwork/database/enterprise-edition/jnettrace.jar>

- The instructions in this document apply to JDK versions 8 and earlier. Please refer to [Document:401934.1](#) Starting With Oracle JDBC Drivers - Installation, Certification, and More! for JDBC and JDK certified combinations.

# Building donlp2 project

Tuesday, October 27, 2020 5:13 PM

1. Checkout donlp2/1.05 or donlp2/1.06
2. Change the java path and build it.
3. For more details, <http://rd.temenosgroup.com/browse/CMT-3052>
4. Scecon project can be built <http://rd.temenosgroup.com/browse/CMT-2964>

## Oracle explain plan for stored procedures

Friday, July 16, 2021 10:59 PM

```
select * from appl_session order by creation_d desc;
exec aaamaindb.set_current_appl_session('XJ50Z7LFKGSME8Z31S9XCVWJ84IQCW4F1LMMHTJHJVUCUZ');--opt_param('_optimizer_enhanced_join_elimination','FALSE')
```

```
explain plan for insert into AAAMAINDB.tt_obj_id (
 id
)
select /*+ opt_param('_optimizer_enhanced_join_elimination','FALSE') */ distinct
 li.id as id
/* security_level_e = 0 */
from AAAMAINDB.list_li
inner join AAAMAINDB.tt_dom_list_compo dl on li.id = dl.list_id
left outer join AAAMAINDB.list_build_history lbh on lbh.list_id=li.id and lbh.status_e = 2 and lbh.validity_d is null
where /* REF10617 - LIE - 041015 : get always the 'domain' list */
 (:p_dim_port_dict_id = 400 and :p_port_object_id = li.id)
or (
 /* Current list */
 /* List is not valid but not ENUM or QUERY */
 (li.validity_period is null
 or li.validity_period = 0
 or lbh.last_construct_d is null
 or (select extract(day from subdiff) from(select cast(:v_sysdate_d as timestamp) - cast(lbh.last_construct_d as timestamp) subdiff from dual)) >= li.validity_period
 and li.nature_e <> 1 and li.nature_e <> 6)
 or (exists (select 'x'
 from AAAMAINDB.list_build_history_compo lbhc2
 inner join AAAMAINDB.tt_dom_port dp2 on dp2.id=lbhc2.object_id
 inner join AAAMAINDB.list_build_history lbh2 on lbh2.id=lbhc2.list_build_history_id
 where lbh2.list_id = li.id
 and lbh2.status_e = 2
 and lbhc2.entity_dict_id = 800
 and lbh2.validity_d is null))
 /* historical list */
 or (:p_current_f = 0
 and ((exists (select 'x'
 from AAAMAINDB.list_build_history_compo lbhc2
 inner join AAAMAINDB.tt_dom_port dp2 on dp2.id=lbhc2.object_id
 inner join AAAMAINDB.list_build_history lbh2 on lbh2.id=lbhc2.list_build_history_id
 where lbh2.list_id = li.id
 and lbhc2.entity_dict_id = 800
 and lbh2.validity_d is not null))
 or (li.historical_list_f = 1
 and not (exists (select 'x'
 from AAAMAINDB.list_build_history lbh2
 where lbh2.list_id = li.id
 and lbh2.validity_d is not null))))))
)
) /* PMSTA03266 - GMS - 071004 - Close the bracket at the right place */
;
```

```
select * from table(dbms_xplan.display); /* To get the details of the explain plan */
```

Plan hash value: 3742819881

Id   Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0   INSERT STATEMENT		1   46   9 (12)  00:00:01			
1   LOAD TABLE CONVENTIONAL	TT_OBJ_ID	1   46   9 (12)  00:00:01			
2   HASH UNIQUE		1   46   9 (12)  00:00:01			
* 3   FILTER		1   46   5 (0)  00:00:01			
4   NESTED LOOPS OUTER		1   46   5 (0)  00:00:01			
5   NESTED LOOPS		1   26   3 (0)  00:00:01			
6   TABLE ACCESS FULL	TT_DOM_LIST_COMPO	1   13   2 (0)  00:00:01			
7   TABLE ACCESS BY INDEX ROWID	LIST	1   13   1 (0)  00:00:01			
* 8   INDEX UNIQUE SCAN	LIST_PK_IDX	1   1   0 (0)  00:00:01			
9   TABLE ACCESS BY INDEX ROWID BATCHED	LIST_BUILD_HISTORY	1   20   2 (0)  00:00:01			
* 10   INDEX RANGE SCAN	LIST_BUILD_HIST_STAT_IDX	1   1   1 (0)  00:00:01			
11   NESTED LOOPS SEMI		1   38   3 (0)  00:00:01			
12   MERGE JOIN CARTESIAN		1   26   2 (0)  00:00:01			
13   INDEX FULL SCAN	DOM_PORT_PTF_IDX	1   13   1 (0)  00:00:01			
14   BUFFER SORT		1   13   1 (0)  00:00:01			
* 15   INDEX RANGE SCAN	LIST_BUILD_HIST_STAT_IDX	1   13   1 (0)  00:00:01			
* 16   INDEX UNIQUE SCAN	LIST_BUILDH_COMP_BK_IDX	8144   97728   1 (0)  00:00:01			
17   FAST DUAL		1   2 (0)  00:00:01			
18   NESTED LOOPS SEMI		1   35   3 (0)  00:00:01			
19   MERGE JOIN CARTESIAN		1   23   2 (0)  00:00:01			
20   INDEX FULL SCAN	DOM_PORT_PTF_IDX	1   13   1 (0)  00:00:01			
21   BUFFER SORT		1   10   1 (0)  00:00:01			
* 22   INDEX RANGE SCAN	LIST_BUILD_HIST_STAT_IDX	1   10   1 (0)  00:00:01			
* 23   INDEX UNIQUE SCAN	LIST_BUILDH_COMP_BK_IDX	8144   97728   1 (0)  00:00:01			
* 24   INDEX RANGE SCAN	LIST_BUILD_HISTORY_BK_IDX	1   6   2 (0)  00:00:01			

Predicate Information (identified by operation id):

```
3 - filter("LI"."ID"=TO_NUMBER(:P_PORT_OBJECT_ID) AND TO_NUMBER(:P_DIM_PORT_DICT_ID)=400 OR EXISTS
 (SELECT O FROM "AAAMAINDB"."LIST_BUILD_HISTORY" "LBH2","AAAMAINDB"."TT_DOM_PORT"
 "DP2","AAAMAINDB"."LIST_BUILD_HISTORY_COMPO" "LBHC2" WHERE "DP2"."ID"="LBHC2"."OBJECT_ID" AND
 "LBHC2"."ENTITY_DICT_ID"=800 AND "LBH2"."ID"="LBHC2"."LIST_BUILD_HISTORY_ID" AND "LBH2"."VALIDITY_D" IS NULL
 AND "LBH2"."STATUS_E"=2 AND "LBH2"."LIST_ID"=:B1) OR ("LI"."NATURE_E"><>1 AND "LI"."NATURE_E"><>6 AND
 ("LI"."VALIDITY_PERIOD" IS NULL OR "LI"."VALIDITY_PERIOD"=0) OR ("LBH2"."LAST_CONSTRUCT_D" IS NULL OR
 "LI"."VALIDITY_PERIOD"=<(SELECT EXTRACT(DAY FROM (CAST(:V_SYSDATE_D AS timestamp)-CAST(:B2 AS
 timestamp))(DAY(9) TO SECOND(6))) FROM "SYS"."DUAL" "DUAL")) OR TO_NUMBER(:P_CURRENT_F)=0) AND (EXISTS (SELECT
```

```

0 FROM "AAAMAINDB"."LIST_BUILD_HISTORY" "LBH2","AAAMAINDB"."TT_DOM_PORT"
"DP2","AAAMAINDB"."LIST_BUILD_HISTORY_COMPO" "LBHC2" WHERE "DP2"."ID"="LBHC2"."OBJECT_ID" AND
"LBHC2"."ENTITY_DICT_ID"=800 AND "LBH2"."ID"="LBHC2"."LIST_BUILD_HISTORY_ID" AND "LBH2"."LIST_ID"=:B3 AND
"LBH2"."VALIDITY_D" IS NOT NULL) OR "LI"."HISTORICAL_LIST_F"=1 AND NOT EXISTS (SELECT 0 FROM
"AAAMAINDB"."LIST_BUILD_HISTORY" "LBH2" WHERE "LBH2"."LIST_ID"=:B4 AND "LBH2"."VALIDITY_D" IS NOT NULL)))
8 - access("LI"."ID"="LBH2"."LIST_ID")
10 - access("LBH2"."LIST_ID"="LI"."ID" AND "LBH2"."STATUS_E"(+)=2 AND "LBH2"."VALIDITY_D"(+) IS NULL)
15 - access("LBH2"."LIST_ID"=:B1 AND "LBH2"."STATUS_E"=2 AND "LBH2"."VALIDITY_D" IS NULL)
16 - access("LBH2"."ID"="LBHC2"."LIST_BUILD_HISTORY_ID" AND "LBHC2"."ENTITY_DICT_ID"=800 AND
"DP2"."ID"="LBHC2"."OBJECT_ID")
22 - access("LBH2"."LIST_ID"=:B1)
 filter("LBH2"."VALIDITY_D" IS NOT NULL)
23 - access("LBH2"."ID"="LBHC2"."LIST_BUILD_HISTORY_ID" AND "LBHC2"."ENTITY_DICT_ID"=800 AND
"DP2"."ID"="LBHC2"."OBJECT_ID")
24 - access("LBH2"."LIST_ID"=:B1)
 filter("LBH2"."VALIDITY_D" IS NOT NULL)

```

Note

- dynamic statistics used: dynamic sampling (level=2)

- this is an adaptive plan

=====

select plan\_table\_output from table(dbms\_xplan.display('plan\_table',null,'basic'));07:16

select plan\_table\_output from table(dbms\_xplan.display('plan\_table',null,'basic'));07:16

```

select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql_history where plan_hash_value=08:17
select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql_history where plan_hash_value=08:17
select sid, serial#, sql_id from v$session;08:17
select sid, serial#, sql_id from v$session;08:17

```

```

select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_fulltext like '%insert into AAAMAINDB.tt_obj_id%';08:31
select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_fulltext like '%insert into AAAMAINDB.tt_obj_id%';08:31
select sid, machine from v$session where sql_id='08:34'
select sid, machine from v$session where sql_id='08:34'

```

```

select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = "08:53"
select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = "08:53"
select * from table(dbms_xplan.display_cursor(sql_id));09:11
select * from table(dbms_xplan.display_cursor(sql_id));09:11
SELECT * FROM TABLE(DBMS_XPLAN.display_cursor(sql_id=>"format=>'ALLSTATS LAST +cost +bytes'"));09:25
SELECT * FROM TABLE(DBMS_XPLAN.display_cursor(sql_id=>"format=>'ALLSTATS LAST +cost +bytes'"));09:25

```

```

select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_fulltext like '%insert into AAAMAINDB.tt_obj_id%'; select sid, serial#,sid, machine from v$session where sql_id='gz7ttck6rw9mk';
select * from v$sql where sql_text like "%sel_sh%" order by last_active_time desc; select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = 'gz7ttck6rw9mk'; -- hash_value 2373854834
(select need to match from gui) select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = '8pdxy7j6bwpk'; --3798332082 not working from gui ptf 2010004096-2, id 229004 select sql_id,
hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = '8pdxy7j6bwpk'; --3798332082 working from gui ptf 2010000079-1 select * from table(dbms_xplan.display_cursor('3798332082',0));09:28
select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_fulltext like '%insert into AAAMAINDB.tt_obj_id%'; select sid, serial#,sid, machine from v$session where sql_id='gz7ttck6rw9mk';

```

```

select * from v$sql where sql_text like "%sel_sh%" order by last_active_time desc; select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = 'gz7ttck6rw9mk'; -- hash_value 2373854834
(select need to match from gui)

```

```

select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = '8pdxy7j6bwpk'; --3798332082 not working from gui ptf 2010004096-2, id 229004 select sql_id, hash_value, old_hash_value, plan_hash_value, full_plan_hash_value from v$sql where sql_id = '8pdxy7j6bwpk'; --3798332082 working from gui ptf 2010000079-1 select * from table(dbms_xplan.display_cursor('3798332082',0));09:28

```

SELECT \* FROM TABLE(DBMS\_XPLAN.display\_cursor(sql\_id=>"format=>'ALLSTATS LAST +cost +bytes'"));09:38

SELECT \* FROM TABLE(DBMS\_XPLAN.display\_cursor(sql\_id=>"format=>'ALLSTATS LAST +cost +bytes'"));

```

select * from v$sql where sql_id='8pdxy7j6bwpk'
select * from v$parameter where name='cursor_sharing';

```

```

PLAN_TABLE_OUTPUT

19 rows selected.

SQL> SELECT * FROM TABLE(DBMS_XPLAN.display_cursor(sql_id=>"gz7ttck6rw9mk",format=>'ALLSTATS LAST +cost +bytes'));

PLAN_TABLE_OUTPUT

SQL_ID gz7ttck6rw9mk, child number 0
begin sel_sh_strategy_link_by_id (:00 ,229004 ,NULL ,0 ,0 ,1 ,0
:16-07-2021 00:00:00 ,NULL ,NULL ,1 ,NULL); end;
NOTE: cannot fetch plan for SQL_ID: gz7ttck6rw9mk . CHILD_NUMBER: 0
Please verify value of SQL_ID and CHILD_NUMBER;
It could also be that the plan is no longer in cursor cache (check v$sql).p
lan)

9 rows selected.

SQL> SELECT * FROM TABLE(DBMS_XPLAN.display_cursor(sql_id=>"8pdxy7j6bwpk",format=>'ALLSTATS LAST +cost +bytes'));

PLAN_TABLE_OUTPUT

SQL_ID 8pdxy7j6bwpk, child number 0
begin sel_sh_strategy_link_by_id (:1 ,12 ,:3 ,:4 ,:5 ,:6 ,:7 ,:8 ,:9
,:10 ,:11 ,:12 ,:13); end;
NOTE: cannot fetch plan for SQL_ID: 8pdxy7j6bwpk . CHILD_NUMBER: 0
Please verify value of SQL_ID and CHILD_NUMBER;
It could also be that the plan is no longer in cursor cache (check v$sql).p
lan)

9 rows selected.

SQL> SELECT * FROM TABLE(DBMS_XPLAN.display_cursor(sql_id=>"8pdxy7j6bwpk",format=>'ALLSTATS LAST +cost +bytes'));

PLAN_TABLE_OUTPUT

SQL_ID 8pdxy7j6bwpk, child number 0
begin sel_sh_strategy_link_by_id (:1 ,:2 ,:3 ,:4 ,:5 ,:6 ,:7 ,:8 ,:9
,:10 ,:11 ,:12 ,:13); end;
NOTE: cannot fetch plan for SQL_ID: 8pdxy7j6bwpk . CHILD_NUMBER: 0
Please verify value of SQL_ID and CHILD_NUMBER;
It could also be that the plan is no longer in cursor cache (check v$sql).p
lan)

9 rows selected.

```

```
SQL> select * from table(dbms_xplan.display_cursor('20d9zdyn1f61u',0,'ALLSTATS'));
```

From <<https://community.oracle.com/mosc/discussion/comment/16801983>>

```
SELECT /*+ parallel(16) */READINGGROUPALTERNATEKEY FROM
ITRONADM.READING SUBPARTITION(SYS_SUBP39472) R WHERE
READINGGROUPALTERNATEKEY IN (SELECT /*+ RESULT_CACHE
*/READINGGROUPALTERNATEKEY FROM ITRONADM.READINGGROUP RG WHERE
RG.RECEIVEDTIME >= NEW_TIME(TO_TIMESTAMP(:"SYS_B_0",";"SYS_B_1"),;"SYS_B_2",;"SYS_B_3") AND RG.RECEIVEDTIME <
NEW_TIME(TO_TIMESTAMP(:"SYS_B_4",";"SYS_B_5"),;"SYS_B_6",";"SYS_B_7"))
--AND R.ENDTIME > NEW_TIME(ADD_MONTHS(TRUNC(SYSDATE,'MONTH'),-26),'MST',
'GMT')
```

From <<https://community.oracle.com/mosc/discussion/comment/16801983>>

```

set serveroutput on size 32000
DECLARE
 start_time pls_integer;
BEGIN
 start_time := dbms_utility.get_time;
 insert into tt_dom_port (id,port_pos_set_id,hier_port_id,fusion_date_rule_e) select id, 0, null, 0 from PORTFOLIO_VWe where 1=1 and e.id in (1103333);
 init_exd_position_by_pps (18 ,3 ,NULL ,NULL ,0 ,1 ,1 ,1);
 sel_exd_position_by_domain (800 ,NULL ,90 ,90 ,0 ,0 , '18-01-2024 00:00:00' , '18-01-2024 00:00:00' ,18 ,0 ,1103333 ,NULL ,0 ,0 ,0 ,0 ,0 ,NULL ,0 ,0 ,2 ,0 ,0 ,2 ,NULL ,0 ,1535109 ,0 ,0 ,NULL);
 dbms_output.put_line((dbms_utility.get_time - start_time)/100 || 'seconds');
END;
/

```

From <<https://stackoverflow.com/questions/53796001/oracle-measuring-execution-time-stored-procedure>>

---

**explain plan for UPDATE AAAMAINDB.PERF\_STORAGE\_PARAM SET ENTITY\_DICT\_ID = :B24 , OBJECT\_ID = :B23 , FREQUENCY\_E = :B22 , CURRENCY\_ID = :B21 , POSITION\_DATA\_ID = :B20 , GRID\_ID = :B19 , PERF\_ATTRIB\_RETURN\_E = :B18 , PERF\_CALC\_DEF\_PROFILE\_ID = :B17 , OLD\_PERF\_STORAGE\_PARAM\_ID = :B16 , INSTR\_LEVEL\_F = :B15 , STANDARD\_PERF\_DATA\_F = :B14 , STD\_PERF\_FIRST\_STORED\_D = :B13 , STD\_PERF\_LAST\_STORED\_D = :B12 , RET\_ANALYSIS\_F = :B11 , RET\_FIRST\_STORED\_D = :B10 , RET\_LAST\_STORED\_D = :B9 , PERF\_ATTRIB\_F = :B8 , PERF\_FIRST\_STORED\_D = :B7 , PERF\_LAST\_STORED\_D = :B6 , PERF\_CALC\_RESULT\_F = :B5 , PERF\_CALC\_FIRST\_STORED\_D = :B4 , PERF\_CALC\_LAST\_STORED\_D = :B3 , CHECKED\_DATA\_E = :B2 WHERE (ID = :B1)) ;**

For more information about the U.S. Environmental Protection Agency's Superfund program, visit [www.epa.gov/superfund](http://www.epa.gov/superfund).

Select plan\_table\_output from table(dbms\_xplan.display( plan\_table ,null, basic ));  
Plan hash value: 741793369

Id	Operation	Name
0	INSERT STATEMENT	
1	LOAD TABLE CONVENTIONAL	TT_OBJ_ID
2	SORT UNIQUE	
3	UNION-ALL	
4	NESTED LOOPS SEMI	
5	NESTED LOOPS	
6	INDEX FULL SCAN	DOM_PORT_PTF_IDX
7	TABLE ACCESS BY INDEX ROWID BATCHED	EXT_ORDER
8	INDEX RANGE SCAN	EXT_ORDER_STAT_OPD_INSTR_IDX
9	INDEX UNIQUE SCAN	UD_EXT_ORDER_PK_IDX
10	NESTED LOOPS	
11	NESTED LOOPS	
12	MERGE JOIN CARTESIAN	
13	INDEX FULL SCAN	DOM_PORT_PTF_IDX
14	BUFFER SORT	
15	INDEX FULL SCAN	DOM_INSTR_ID_IDX
16	INDEX RANGE SCAN	POSITION_INSTR_IDX
17	TABLE ACCESS BY INDEX ROWID	POSITION
18	NESTED LOOPS	
19	NESTED LOOPS	
20	MERGE JOIN CARTESIAN	
21	INDEX FULL SCAN	DOM_PORT_PTF_IDX
22	BUFFER SORT	
23	INDEX FULL SCAN	DOM_INSTR_ID_IDX
24	BITMAP CONVERSION TO ROWIDS	
25	BITMAP AND	
26	BITMAP CONVERSION FROM ROWIDS	
27	INDEX RANGE SCAN	BALANCE_POS_INSTR_IDX
28	BITMAP CONVERSION FROM ROWIDS	
29	SORT ORDER BY	
30	INDEX RANGE SCAN	BALANCE_POS_CLU_IDX
31	TABLE ACCESS BY INDEX ROWID	BALANCE_POS

# ssh login issue - KexAlgorithms=diffie-hellman-group1-sha1

22 February 2024 10:22

```
/home/laxmishhegde/.ssh->ssh -o KexAlgorithms=diffie-hellman-group1-sha1 cmsbm@laulxc1
Unable to negotiate with 10.20.70.75 port 22: no matching host key type found. Their offer: ssh-rsa,ssh-dss
```

## Resolution:

1. **Create file /etc/ssh/ssh\_config in cygwin. Content of the file will be:**

```
/etc/ssh->cat ssh_config
Ciphers 3des-cbc,aes128-cbc,aes192-cbc,aes256-cbc,aes128-ctr,aes192-ctr,aes256-ctr,aes128-gcm@openssh.com,aes256-gcm@openssh.com,chacha20-poly1305@openssh.com
MACs hmac-sha1,hmac-sha1-96,hmac-sha2-256,hmac-sha2-512,hmac-md5,hmac-md5-96,umac-64@openssh.com,umac-128@openssh.com,hmac-sha1-etm@openssh.com,hmac-sha1-96-etm@openssh.com,hmac-sha2-256-etm@openssh.com,umac-sha2-512-etm@openssh.com,hmac-md5-etm@openssh.com,hmac-md5-96-etm@openssh.com,umac-64-etm@openssh.com,umac-128-etm@openssh.com
HostKeyAlgorithms ssh-ed25519,ssh-ed25519-cert-v01@openssh.com,sk-ssh-ed25519@openssh.com,sk-ssh-ed25519-cert-v01@openssh.com,ssh-rsa,ssh-dss,ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,sk-ecdsa-sha2-nistp256@openssh.com,ssh-rsa-cert-v01@openssh.com,ssh-dss-cert-v01@openssh.com,ecdsa-sha2-nistp256-cert-v01@openssh.com,ecdsa-sha2-nistp384-cert-v01@openssh.com,ecdsa-sha2-nistp521-cert-v01@openssh.com,sk-ecdsa-sha2-nistp256-cert-v01@openssh.com
KexAlgorithms diffie-hellman-group1-sha1,diffie-hellman-group14-sha1,diffie-hellman-group14-sha256,diffie-hellman-group16-sha512,diffie-hellman-group18-sha512,diffie-hellman-group-exchange-sha1,diffie-hellman-group-exchange-sha256,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,curve25519-sha256,curve25519-sha512
@libssh.org,sntrup761x25519-sha512@openssh.com
/etc/ssh->
```

2. **/home/laxmishhegde/.ssh->cat config**

```
Host *
 KexAlgorithms +diffie-hellman-group1-sha1,diffie-hellman-group14-sha1
 PubkeyAcceptedAlgorithms +ssh-rsa
 HostKeyAlgorithms +ssh-rsa
/home/laxmishhegde/.ssh->
```

```
/home/laxmishhegde->ssh cmsbm@laulxc1
(cmsbm@laulxc1) Password:
Last login: Thu Feb 22 05:51:42 2024 from laumcsvda079.temenosgroup.com
Have a lot of fun...
cmsbm@laulxc1:/users_nas/continuus/cmsbm>
```

=====

# TAP core license file

Thursday, February 18, 2021 9:39 PM

```
alter session set current_schema = aaamaindb;
update aaamaindb.appl_param set value_n='31/10/2021' where param_name='LICENSEE_EXPIRATION';
update aaamaindb.appl_param set value_n='krmlq nbXrl nUfb9 qGbu1 qQcji qn1p+ jv7DY' where param_name='LICENSEE_KEY2';
```

```
SET PREFIX DATA NONE
```

```
SET QUOTE '
```

```
CMD INSUPD appl_param
```

```
ATT param_name value_n
```

```
DAT LICENSEE_NAME 'Temenos_Internal'
```

```
DAT LICENSEE_USERS '1,1,1,1,1,1,3,1,1,2,1,1,1,1,1,1,0,0,0'
```

```
DAT LICENSEE_EXPIRATION 'UNLIMITED'
```

```
DAT LICENSEE_KEY1 '17949 hsFgD B9qns AtQ3H Dep2R'
```

```
DAT LICENSEE_KEY2 'Dx-pT B9nkG AtMfA CsV37 -oA1S Zba4V'
```

```
=====
```

[https://lausvn.temenosgroup.com/svn/pi/DeploymentTools/hudson-jobs/cmt\\_env\\_jobs\\_refresh/targets\\_list/triplea\\_license.imp](https://lausvn.temenosgroup.com/svn/pi/DeploymentTools/hudson-jobs/cmt_env_jobs_refresh/targets_list/triplea_license.imp)

```
select * from appl_param where param_name like '%LICE%';
```

```
update appl_param set value_n='17962 +02KH +J7Mv Qovgj Nlzyu PTqXX' where param_name='LICENSEE_KEY1';
```

```
update appl_param set value_n='+ykku NnzAW NXhP8 PUTPz 0j7YW 2nrsz' where param_name='LICENSEE_KEY2';
```

```
update appl_param set value_n='UNLIMITED' where param_name='LICENSEE_EXPIRATION';
```

```
update appl_param set value_n='100,100,1,100,100,100,100,3,100,100,2,100,100,1,1,1,0,0,0' where param_name='LICENSEE_USERS';
```

```
update appl_param set value_n='R'||chr(38)||'D' where param_name='LICENSEE_NAME';
```

```
commit;
```

```
alter trigger AAAMAINDB.U_APPL_PARAM_TRG enable;
```

```
=====
```

```
Mssql server
```

```
disable trigger aaamaindb.u_appl_param_trg on aaamaindb.appl_param;
```

```
use cip_lx_mss6;
```

```
select * from aaamaindb.appl_param where param_name like '%LICE%';
```

```
update aaamaindb.appl_param set value_n='17962 +02KH +J7Mv Qovgj Nlzyu PTqXX' where param_name='LICENSEE_KEY1';
```

```
update aaamaindb.appl_param set value_n='+ykku NnzAW NXhP8 PUTPz 0j7YW 2nrsz' where param_name='LICENSEE_KEY2';
```

```
update aaamaindb.appl_param set value_n='UNLIMITED' where param_name='LICENSEE_EXPIRATION';
```

```
update aaamaindb.appl_param set value_n='100,100,1,100,100,100,100,3,100,100,2,100,100,1,1,1,0,0,0' where param_name='LICENSEE_USERS';
```

```
update aaamaindb.appl_param set value_n='R&D' where param_name='LICENSEE_NAME';
```

```
enable trigger aaamaindb.u_appl_param_trg on aaamaindb.appl_param;
```

# lsof and fuser

Tuesday, October 27, 2020 5:18 PM

```
$ lsof /tmp/file
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME
less 4737 wena 4r REG 8,6 90700 1643536 /tmp/file
```

```

lsof |grep (filename)
This will show you the process that is currently using the file.
```

```

$ lsof -r1 /path/to/file
```

```

loggedfs -l /path/to/log_file -c /path/to/config.xml /path/to/directory
tail -f /path/to/log_file
```

```

iotop -bktoqqq -d .5
```

where: -b is batch mode

- k is kilobytes/s
- t adds timestamp
- o only show processes or threads actually doing I/O
- qqq removes output headers
- d .5 updates every .5 seconds

```

lsof -p $PID
```

```

fuser -uvm /dev/mapper/LXAAA02-OAMS_LV
```

or

```

fuser -uvm /oams
```

Check for the disk usage:

1. lstat -Nd
2. lvdisplay
3. lsblk
4. mount
5. ls -l /dev/mapper/\*

Find process for the given port

```
netstat -tulpn | grep 21015
```

<\\temenosgroup\wealth\devtools> - All the dev tools with visual studio 2013, 2017

<http://wiki.temenosgroup.com/display/DEVWIKI/C+Development+Intro>

## TAP Licensing Module - license file

20 May 2023 21:37

LICENSEE\_KEY2 '8Z2i1 2MRA0 2gzw 0dCzd cKRsA NIZEt'

# Sybase Utility scripts

Tuesday, October 27, 2020 5:19 PM

```
SELECT 'ID','LASTNAME','FIRSTNAME','DOB' union
SELECT string(ID),LASTNAME,FIRSTNAME,DOB FROM SomeTable;
OUTPUT TO 'C:\\temp\\sometable.csv' FORMAT ASCII DELIMITED BY ';' QUOTE ";

ISQL <<-ISQL_END >> lax.sql
set nocount on
go
use v_syb_aix_2_aaamaindb
go
SELECT o.name FROM sysobjects o, sysusers u WHERE o.uid=u.uid and u.name = 'dbo' AND o.type = 'V'
go
ISQL_END

ISQL < lax.sql
```

# Sybase server installation & DB startup command

01 April 2023 12:48

## Creating Environment

**Please Note:** These commands are only for practice purposes. you can assign complete directory path when installer will ask for it.

```
export MYTEMPDIR=<please give path of direcotry for extracting the files>
```

## Pre Installation

- mkdir \$MYTEMPDIR/sybase
- Copy the files from the following Path  
cp /nas/software/tp\_products/Sybase/15.0.3/ASE-0.3/Solaris \$MYTEMPDIR/sybase
- unzipped the files  
gunzip ase1503\_solsparc64.tar.gz  
tar -xvf ase1503\_solsparc64.tar
- DSQUERY  
to check the name of Sybase Server Name

## Sybase Installation

- \$MYTEMPDIR/sybase/setup -is:javaconsole -console
- Choose destination directory
- Full Installation / Typical / Custom (Full Installation)
- Number of the location: 28 Switzerland(English)
- Licence Copy: /nas/software/tp\_products/Sybase/15.0.3/Licence\_SYB\_15/.... (choose the one linked to your OS)
- Product Edition = Enterprise Edition
- License Type = 14. AR : OEM Application Deployment Server License
- Do you want to configure email alerts? No
- Installation of all the components 100%
- at the end, do not configure any server as it will be done through a resource file
- Password Remember (Entered 0-No)

## Crating Data Servers

### How to access the Sample Resource Files included in Sybase

```
$ cd $SYBASE/ASE-15_0/init/sample_resource_files
$ cp srvbuild.adaptive_server.rs $SYBASE/ASE/15_0/bin
$ cp srvbuild.backup_server.rs $SYBASE/ASE-15_0/bin
```

### How to access the Odyssey Template Resource Files (\*.rs)

```
cd /nas/softlib/[EnvTeam]/tools
```

Note : Please copy the Appropriate resource files which match your Sybase Version

### Adapt the Resource Files

#### Required values

Log Paths

Backup Server Name: <Backup Server Name>

File Master device name: <master.dat>

Port Range for Data & Backup Servers

tempdb Size = 500MB

sa Password = Null

### Creating the Data & Backup Servers

```
cd $SYBASE/ASE-15_0/bin
srvbuildrs -r <DATA Server Resrouce File>.rs
srvbuildrs -r <DATA Server Resrouce File>.rs
```

## How to Create tempdb Manually.

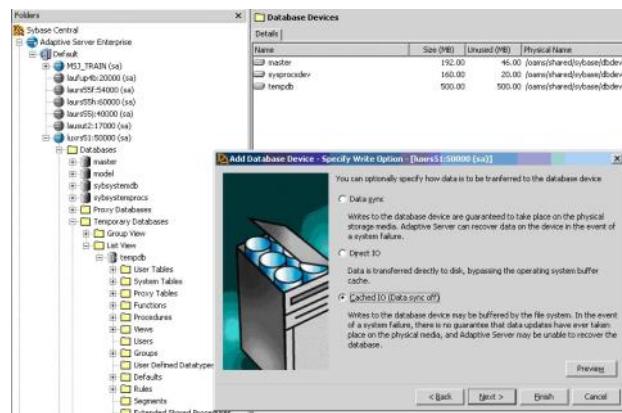
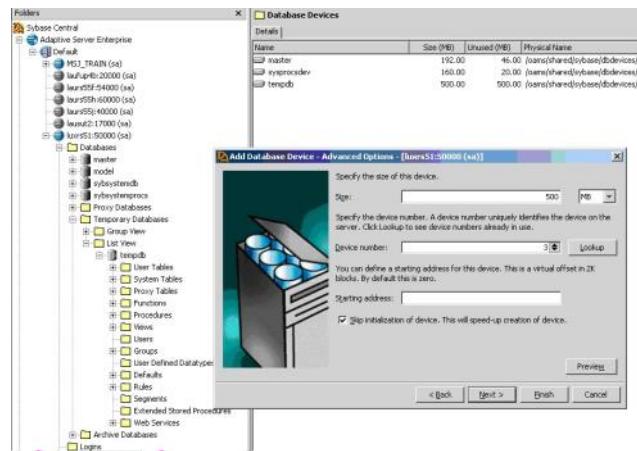
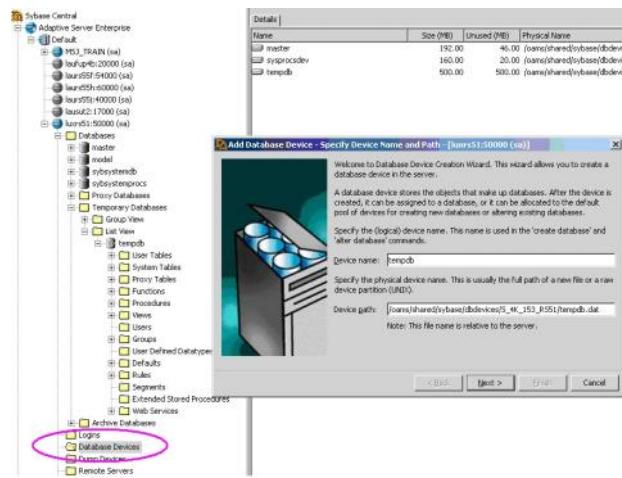
Note : (If using standard template for Data server Creation, Please do not perform this task)

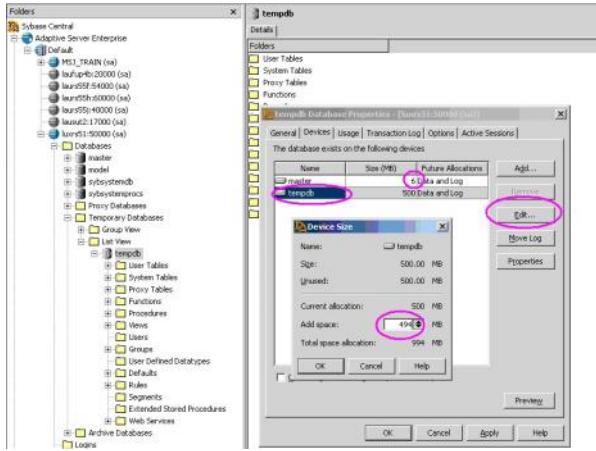
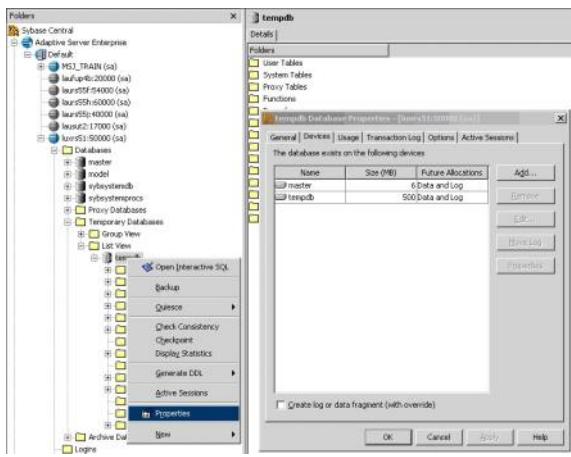
```

$ isql -Usa -P<SA Password>
use master
go
disk init name="tempdb_dev", physname="<DB Devices path>/tempdb_dev.dat", size="500M",dsync="false"
go

```

## How to Change Tempdb size using Sybase Central





## How to Change Tempdb size using console &

alter database tempdb on tempdb Dev="500M"

go

## Custom Configuration

Please Copye the Standard <DSQUERY>.cfg File matching with the Environment

cp /nas/softlib/[EnvTeam]/tools/<Config File Match with Env>.cfg \$SYBASE/ASE-15\_0

**Please Note : This configuration is parameters usually used on site. This Step has already been applied if you have already applied the above mentioned step to copy "<DSQUERY>.cfg" File and Restart the Servers.**

```
isql -Usa -P<Password>
sp_configure "max memory", 250000
sp_configure "procedure cache size", 32000
sp_configure "statement cache size", 25000
sp_cacheconfig "default data cache", "100M"
sp_poolconfig "default data cache", "5M", "8K"
sp_poolconfig "default data cache", "30M", "32K"
sp_cacheconfig tempdbcache, "40M"
sp_bindcache tempdbcache, tempdb
sp_poolconfig "tempdbcache", "3M", "8K"
sp_poolconfig "tempdbcache", "15M", "32K"
sp_configure "number of open objects", 7500
sp_configure "number of open indexes", 7500
sp_configure "number of devices", 30
sp_configure "number of remote connections", 100
sp_configure "number of remote logins", 100
sp_configure "enable literal autoparam", 1
sp_configure "enable compatibility mode", 1
sp_configure "identity burning set factor", 100
sp_configure "cpu grace time", 1000
sp_configure "number of user connections", 100
sp_configure "stack size", 102400
sp_configure "user log cache size", 8192
sp_configure "number of locks", 50000
sp_configure "print deadlock information", 1
```

go

## How to Changing the password (Recomended After the Data server Installation)

```
isql -Usa
1> sp_password null, "sybase"
2> go
3> exit
```

## To increase the Performance of Sybase Servers

 Do not perform this step of dbcache

1. adapt \$AAAHOME/install/RUN\_<DSQUERY>  
plesae Add Trace Flag in the end of the file -T299
2. AIX Operating system only  
Please add the following in RUN\_<DSQUERY> only if its an AIX OS  
AIXTHREAD\_SCOPE=S  
export AIXTHREAD\_SCOPE
3. tempdb Segments  
use tempdb  
go  
sp\_dropsegment "default", tempdb, master  
go  
sp\_dropsegment "system", tempdb, master  
go  
sp\_dropsegment "logsegment", tempdb, master  
go
4. tempdb Cache  
use master  
go  
sp\_bindcache tempdbcache, tempdb  
go

## Post Installation

Only required after Sybase update action!

```
cd $SYBASE/$SYBASE_ASE/scripts
isql -Usa -Psybase -i installmaster
isql -Usa -Psybase -i instmsg.ebf
```

## Validation

- How to start the Servers  
cd \$SYBASE/install  
.startserver -f RUN\_<DSQUERY>  
.startserver -f RUN\_<DSQUERY>\_BS
- To check the version of Sybase  
isql -Usa -Psybase  
select @@version  
select @@maxpagesize

## How to install Sybase Licence

```
cd /nas/software/tp_products/Sybase/<version>/Licence_SYB_<ver>
cp <OS>_ANY_<DATEStamp>.lic $SYBASE/SYSAM-2_0/licenses
```

From <<http://wikiorg.temenosgroup.com/display/ARCH/Sybase+15.X+ESDX+Installation>>

# Connecting vpn

03 April 2023 11:23

Windows start button, manage user certificate

Check the expiration date

certmgr - [Certificates - Current User\Personal\Certificates]						
File Action View Help						
Certificates - Current User	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Name	Status
Personal	ChildMBInfinityCert	RooTMBInfinityCert	27-10-2023	Client Authentication	<None>	
Certificates	Laxmish Hegde	Temenos Issuing CA 3	20-07-2023	Client Authentication	<None>	AO VPN User ...
Trusted Root Certification Au	Laxmishhegde@temenos.com	MS-Organization-P2P-Access [20...	08-09-2022	Client Authentication	<None>	
Enterprise Trust	Laxmishhegde@temenos.com	Communications Server	13-02-2022	Client Authentication	<None>	
Intermediate Certification Au	P2SInfWealthChildCert	P2SInfWealthRootCert	17-08-2023	Client Authentication	<None>	
Active Directory User Object						
Trusted Publishers						
Untrusted Certificates						
Third-Party Root Certification						
Trusted People						
Client Authentication Issuers						
Other People						
Preview Build Roots						
Local NonRemovable Certific						
MSIEHistoryJournal						
OpenVPN Certificate Store						
Remote Desktop						
Certificate Enrollment Reque						
Smart Card Trusted Roots						
Trusted Devices						
Windows Live ID Token Issuer						

Oracle: Recently executed query, stored procedure, functions

28 October 2022 14:21

1. 

```
SELECT program_id, program_line#, sql_text
 FROM V$SQL VS , ALL_USERS AU
 WHERE (executions >= 1)
 AND (parsing_user_id != 0)
 AND (AU.user_id(+) = VS.parsing_user_id)
 AND UPPER(AU.USERNAME) IN (UPPER('v_ora_21_1aaa'))
 ORDER BY last_active_time DESC;
```
  2. 

```
select *
 from dba_objects
 where object_id = program_id
```

From <<https://stackoverflow.com/questions/25205234/how-can-i-see-the-last-sql-statement-executed-in-oracle-database-11g-r2>>

```
SELECT program_id, program_line#, sql_text
FROM V$SQL VS , ALL_USERS AU
WHERE (executions >= 1)
AND (parsing_user_id != 0)
AND (AU.user_id(+) = VS.parsing_user_id)
AND UPPER(AU.USERNAME) IN (UPPER('v_ora_21_laaa'))
ORDER BY last active time DESC;
```

3. You can use the below query to get the last sql executed based on last sql which was active in database.

```
select ltrim(sq.sql_text)
 from v$sql sq, v$session se, v$open_cursor oc
 where sq.sql_id = oc.sql_id
 and se.saddr = oc.saddr
 and se.sid = oc.sid
 and se.audsid = SYS_CONTEXT('userenv', 'sessionid')
 order by oc.LAST_SQL_ACTIVE_TIME desc;
```

4. You can also use the below to find the last query executed in your session.

```
SELECT (SELECT t2.sql_fulltext
 FROM v$sql t2
 WHERE t1.prev_sql_id = t2.sql_id
 AND t1.prev_child_number = t2.child_number) sql_fulltext
 FROM v$session t1
 WHERE t1.audsid = Sys_context('userenv', 'sessionid');
```

From <<https://stackoverflow.com/questions/25205234/how-can-i-see-the-last-sql-statement-executed-in-oracle-database-11g-r2>>

- ```
5. select h.sample_time
   , u.username
   , h.machine
   , s.sql_text
   , h.*
  from dba_hist_active_sess_history h
 inner join v$sql s
 on s.sql_id = h.sql_id
 left outer join dba_users u
 on u.user_id = h.user_id
 where s.sql_text like 'DELETE%'
 order by h.sample_time desc;
```

From <<https://stackoverflow.com/questions/25205234/how-can-i-see-the-last-sql-statement-executed-in-oracle-database-11g-r2>>

6. select sq.PARSING_SCHEMA_NAME, sq.LAST_LOAD_TIME, sq.ELAPSED_TIME, sq.ROWS_PROCESSED, ltrim(sq.sql_text)
from v\$sql sq, v\$session se
where sq.PARSING_SCHEMA_NAME = 'V_ORA_21_1_AAAMAINDB'
order by sq.LAST_LOAD_TIME desc;

From <<https://stackoverflow.com/questions/25205234/how-can-i-see-the-last-sql-statement-executed-in-oracle-database-11g-r2>>

7. select sesion.sid, sql_text from v\$sqltext sqltext, v\$session sesion.

where sesion.sql_hash_value = sqltext.hash_value.

and. sesion.sql_address = sqltext.address.

and. sesion.username is not null.

From <[SQL> select timestamp, owner, obj_name, action_name from dba_audit_trail order by timestamp desc;](https://www.google.com/search?q=oracle+query+to+get+the+stored+procedure+executed&sxsrf=ALiCzsZlfjTptZ_wU78TqX5at7vqJnrNA%3A1666946912543&source=hp&ei=yJdbnDHoaaOseMP8sCkyAY&rls=AIK0e8AAAAAY1ulNGcR1TWU_DaV6MKDpPLBjWjudC&ved=0ahUKEwI589CxUyL7ahUGSGwGHXlgCVkQ4dUDCAg&uact=5&og=oracle+query+to+get+the+stored+procedure+executed&rls=0ahUKEwI589CxUyL7ahUGSGwGHXlgCVkQ4dUDCAg&uact=5&ip=Egnd3Mtd2l6uAEF&AEBMgUQIRigATIFCEYoAEyBRAhGKABMggQIRgWGB4YHTIIECCEYFhgeGB3CAGsQABIABBixAxIDAcICERAuGIAEGLEDGIMBGMcBNEDwglFEAAygATCAGgQABIABBixA8ICBRAuGIAEwg!EC4YgAQYsQPCAggQLhixAxIDARIUAxICERAuGIAEGLEDGMcBNEDGNQwglOECA4YgAQYsQMYxwFYQOPCAGgQLhixAxIDAcICCAuGIAEGMcBGK8Bwg!FEAAyFhgewglGEAAyHhrnwg!FEAAyhgPCagQOIRgVwglHECEYgAEYCKjY-gFOAFIE2QFwFxgAyAEKAEBmAH3B6AB22gAOQwlQ1lxLiMuNy0&scclient=pws-wiz></p></div><div data-bbox=)

From <<https://community.oracle.com/tech/developers/discussion/671014/procedure-last-executed>>

DFT Tester in command mode (Fusion Automator)

Tuesday, October 27, 2020 5:21 PM

https://laulxcmtemenosgroup.com/job/env.CIP_LX_ORA_UTP.ta_automator/25/consoleFull <https://laulxcmtemenosgroup.com/job/env.CIP_LX_ORA_UTP.ta_automator/25/consoleFull>
https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/SHELL/INT_SSH/call_automator.sh <https://lausvn.temenosgroup.com/svn/ftgen/TA/AUTOMATION/AUTOMATOR/SHELL/INT_SSH/call_automator.sh>

For FUSION Unit Testing Tools (FusionUnitTest)

PMSTA-28077 ->

Unitest failed while zlib reading on Linux

From <<http://rd.temenosgroup.com/browse/PMSTA-28077>>

<http://rd.temenosgroup.com/browse/PCC-19657> - Quick basic validation of the fusion engine computations

dft.c

Created the function DFT_Enable() to set the STATIC global variable DFTStatus to TRUE

Created the function DFT_Disable() to set the STATIC global variable DFTStatus to FALSE

Created the function DFT_WaitToBeUnlocked() in the file to freezes the fusion process and the dispatcher process at each critical step.

dft.h

Added the function prototypes of DFT_Enable(), DFT_Disable() and DFT_WaitToBeUnlocked()

fusload.c

Called DFT_WaitToBeUnlocked() from FIN_ExtractPositionFromDatabase() Before the call to DBA_MultiSelect2
Called DFT_WaitToBeUnlocked() from FIN_ExtractPositionFromDatabase() After the call to DBA_MultiSelect2

Called DFT_WaitToBeUnlocked() from FIN_UpdateDataBase() Before the call to DBA_MultiAccess

Called DFT_WaitToBeUnlocked() from FIN_UpdateDataBase() After the two calls to DBA_EndTransaction

Called DFT_WaitToBeUnlocked() from FUS_LaunchFusion() At the start of the function.

Called DFT_WaitToBeUnlocked() from FUS_LaunchFusion() At the end of the function.

Functions FIN_InsertPtfinDomPort() and FIN_InsertOnePtfinDomPort() moved to fusload.c

fuslib.c

Called DFT_WaitToBeUnlocked() from FIN_InsertPtfinDomPort() Before the call to DBA_SqlExec
Called DFT_WaitToBeUnlocked() from FIN_InsertPtfinDomPort() After the call to DBA_SqlExec

sybsrvcb.c

Called DFT_WaitToBeUnlocked() from SYB_SpawnedFusion() Before the call to SYB_SendDoneFusionNotifToDispatch
Called DFT_WaitToBeUnlocked() from SYB_SpawnedFusion() After the call to SYB_SendDoneFusionNotifToDispatch

sybrpc2.c

Called DFT_WaitToBeUnlocked() from SYB_RpcDoneFusion() Inside and after the if (ptfToDeleteIdx > 0)
Called DFT_WaitToBeUnlocked() from SYB_RpcDoneFusion() Inside and at the end of if (ptfToDeleteIdx > 0)
Called DFT_WaitToBeUnlocked() from SYB_RpcDoneFusion() Inside and after the if (ptfinErrorIdx > 0)
Called DFT_WaitToBeUnlocked() from SYB_RpcDoneFusion() Inside and at the end of if (ptfinErrorIdx > 0)
Called DFT_WaitToBeUnlocked() from SYB_RpcDoneFusion() Inside and after the if (ptfToRepostIdx > 0)
Called DFT_WaitToBeUnlocked() from SYB_RpcDoneFusion() Inside and at the end of if (ptfToRepostIdx > 0)

servlib2.c

Called DFT_WaitToBeUnlocked() from SERV_LaunchImport() At the start of the function.
Called DFT_WaitToBeUnlocked() from SERV_LaunchImport() At the end of the function before two return statement.
Called DFT_WaitToBeUnlocked() from SERV_LaunchExport() At the start of the function.
Called DFT_WaitToBeUnlocked() from SERV_LaunchExport() At the end of the function before two return statement.

sybserv2.c

Called DFT_WaitToBeUnlocked() from SYB_DispatchFusions() Before the call to SERV_SendStock
Called DFT_WaitToBeUnlocked() from SYB_DispatchFusions() After the call to SERV_SendStock
Called DFT_WaitToBeUnlocked() from SYB_FusEventHandler() At the start of the switch case UserEvent_RestartedServer
Called DFT_WaitToBeUnlocked() from SYB_FusEventHandler() At the end of the switch case UserEvent_RestartedServer

common.dsp

Added the new files dft.c and dft.h

Oracle PL/SQL Debugging & Stacktrace Utilities

Saturday, October 31, 2020 7:49 AM

https://docs.oracle.com/cd/B19306_01/appdev.102/b14258/d_debug.htm#i1009873

PRINT_BACKTRACE Procedure

This procedure prints a backtrace listing of the current execution stack. This should only be called if a program is currently running. There are two overloaded PRINT_BACKTRACE procedures.

From <https://docs.oracle.com/cd/B19306_01/appdev.102/b14258/d_debug.htm#i1009079>

https://docs.oracle.com/database/121/ARPLS/u_call_stack.htm#ARPLS74086

```
drop table aaamaindb.lax;
create table lax(msg varchar2(3200 char));
grant select, insert, update, delete on aaamaindb.lax to triplea, tasc_tech;
```

```
create or replace procedure DISPLAY (
    p_sql IN varchar2,
    p_debug_level IN number DEFAULT 1,
    p_debug IN number DEFAULT 1
)
/*
generator_version: WealthSuite Front Office ( Build : R25.4.07.A01 2020-Oct-09 09:32:56 (LIN64 Debug) 25.4.07.A01-RC11-41-gaaf6868)
filespec: technical.psc!24.0.0-4:ascii:lau1=1
generation_date: 17/10/2020 15:57:17
ENABLE_ADDITIONAL_DSP=0
ENABLE_MULTI_TASC_LOGIN=0
*/
as
    l_depth PLS_INTEGER;
begin
    insert into aaamaindb.lax values(p_sql);
    if p_debug >= p_debug_level
    then
        DBMS_OUTPUT.ENABLE(1000000);
        DBMS_OUTPUT.put_line(p_sql);
    end if;

    l_depth := UTL_CALL_STACK.backtrace_depth;

    --DBMS_OUTPUT.put_line('***** Call Stack Start *****');
    insert into aaamaindb.lax values('***** Call Stack Start *****');

    insert into aaamaindb.lax values('Depth Lexical Line Owner Edition Name');
    insert into aaamaindb.lax values('. Depth Number');
    insert into aaamaindb.lax values('-----');

    FOR i IN REVERSE 1 .. l_depth LOOP
        insert into aaamaindb.lax values(
            RPAD(i, 10) ||
            RPAD(UTL_CALL_STACK.lexical_depth(i), 10) ||
            RPAD(TO_CHAR(UTL_CALL_STACK.unit_line(i),'99'), 10) ||
            RPAD(NVL(UTL_CALL_STACK.owner(i),' '), 10) ||
            RPAD(NVL(UTL_CALL_STACK.current_edition(i),' '), 10) ||
```

```
RPAD(NVL(UTL_CALL_STACK.backtrace_unit(i), ''), 100)
--UTL_CALL_STACK.concatenate_subprogram(UTL_CALL_STACK.subprogram(i))
);
END LOOP;

insert into aaamaindb.lax values('***** Call Stack End *****');
end;
```

Git checkout of closed branches

Thursday, November 5, 2020 11:43 AM

1. On your W:\TA, open the git bash terminal

|

2. Execute the below command

git clone <https://bitbucket.temenos.com/scm/tws/ta.git>

3. Next, execute the below command to checkout the closed branch (23.1.13.A06)

git checkout 23.1.13.A06

Use bellow command

git checkout tags/23.1.13.A06 -b 23.1.13.A06

git status

Re-comp setup with Data-dependency

Thursday, November 5, 2020 6:33 PM

As discussed today, in order to have an automatic recomputation of instrument's extended attribute based on instr_chrono's changes you must do:

On entity "instr_chrono" set obj_modif_stat_e= 1 (tracking automatic)
then regenerate the triggers on instr_chrono (install_ddl)

each modification of instr_chrono will generate an entry in object_modif_stat_table

create a new data_dependency_rule to process those events and generate the right entry in tasc_entity_recomp_obj

have a look on SYS_Instr-EntityRecomputation as example

take care that depending on the way the record in object_modif_stat is generated you may have to adapt the default value on
tasc_entity_recomp_obj.object_id and
tasc_entity_recomp_obj.entity_dict_id

to generate a valid record in tasc_entity_recomp_obj with the entity_dict_id and object_id corresponding to the instrument and not to the instr_chrono

Actuate Fail-over mechanism

Wednesday, November 11, 2020 7:20 PM

normally we should be able to define a round-robin between n servers in otf-services.xml

I did not played with that since years but I assume it should work. However I'm not sure about the behaviour in case of 1 actuate being down.
to be tested

other option would be to have a load balancer in between. BUT the trick is to ensure that the whole conversation between OCS and actuate is always routed to the right place so if they can have the right config ensuring that all the traffic goes to primary actuate and that we go to secondary only in case of failure it may work

both options have to be tested

Returning Function Pointer Example

Tuesday, November 10, 2020 11:32 PM

```
#include <iostream>
int my_f(int i)
{
    return i + 1;
}
#ifndef 0 // The version using a typedef'ed function pointer
typedef int (*func_t)(int);
class A
{
public:
    A(func_t f) : m_f(f) {}
    func_t get_f() const { return m_f; }
private:
    func_t m_f;
};
int main(int argc, char *argv[])
{
    const A a(my_f);
    std::cout << "result = " << a.get_f()(2) << std::endl;
}
#else // The version using explicitly prototyped function pointer
class A
{
public:
    A(int (*f)(int)) : m_f(f) {}
    int (*get_f()) const(int) { return m_f; }
private:
    int (*m_f)(int);
};
int main(int argc, char *argv[])
{
    const A a(my_f);
    std::cout << "result = " << a.get_f()(2) << std::endl;
}
#endif
```

From <<https://stackoverflow.com/questions/20617067/returning-function-pointer-type>>

Linux Kernel Diagnostic commands

Wednesday, December 2, 2020 11:00 AM

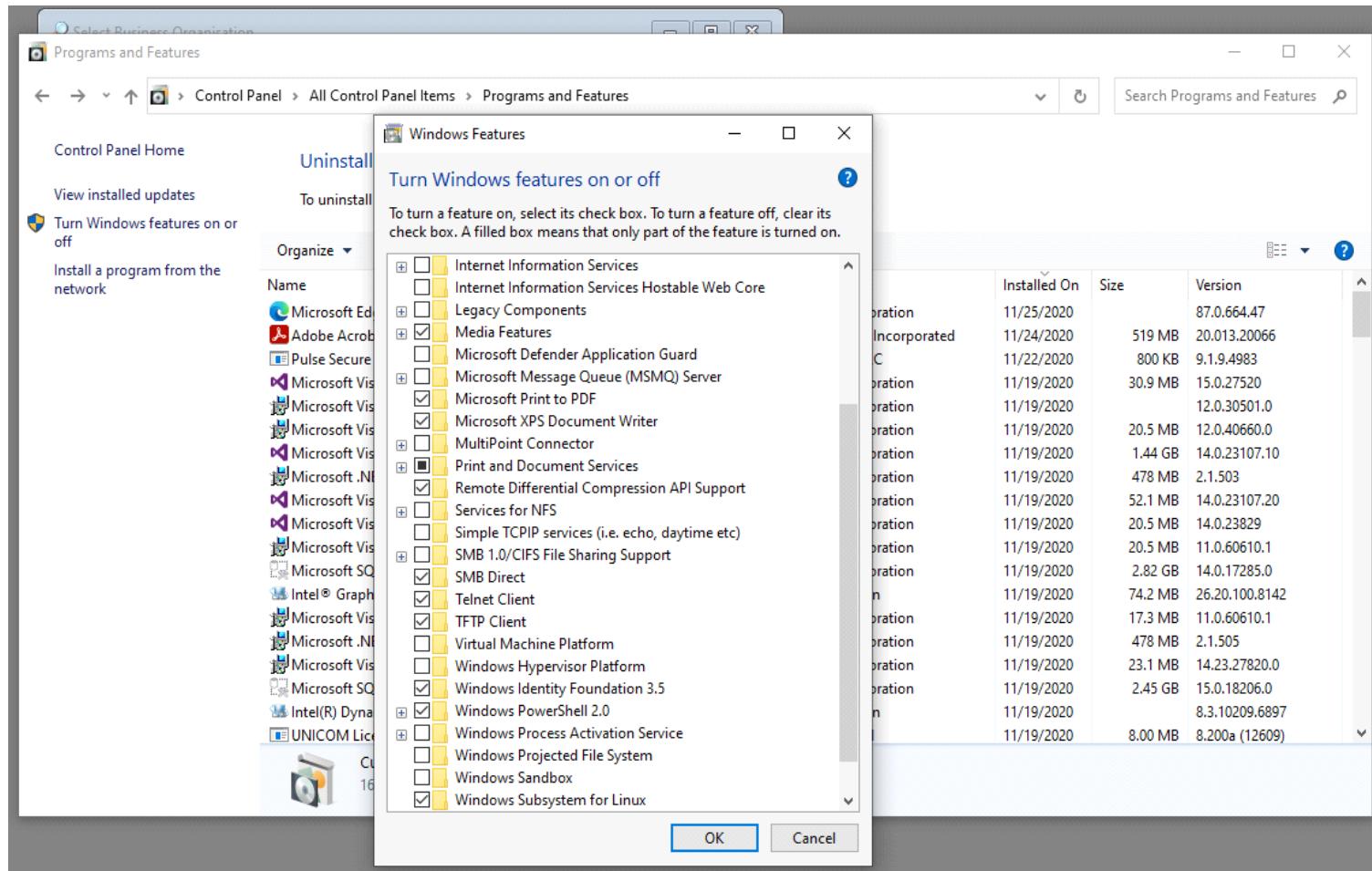
>dmesg

>dmesg -T

>cat /var/log/messages

Enabling/Disabling Program Feature - Control Panel

Wednesday, December 2, 2020 11:45 AM



OCI Data Types and Examples

Wednesday, December 9, 2020 6:08 PM

<https://stackoverflow.com/questions/51337345/get-set-timestamp-values-using-oci>

```
/* allocate the program variable for storing the data */
OCIDateTime *tstmpLtz = (OCIDateTime *)NULL;
/* Col1 is a time stamp with local time zone column */
OraText *sqlstmt = (OraText *)"SELECT col1 FROM foo";
/* Allocate the descriptor (storage) for the data type */
status = OCIDescriptorAlloc(envhp,(void **) &tstmpLtz, OCI_DTYPE_TIMESTAMP_LTZ,
    0, (void **)0);
.....
status = OCIStmtPrepare (stmthp, errhp, sqlstmt, (ub4)strlen ((char *)sqlstmt),
    (ub4)OCI_NTV_SYNTAX, (ub4)OCI_DEFAULT);
/* specify the define buffer for col1 */
status = OCIDefineByPos(stmthp, &defnp, errhp, 1, &tstmpLtz, sizeof(tstmpLtz),
    SQLT_TIMESTAMP_LTZ, 0, 0, 0, OCI_DEFAULT);
/* Execute and Fetch */
OCIStmtExecute(svchp, stmthp, errhp, 1, 0,(OCISnapshot *) NULL,
    (OCISnapshot *)NULL, OCI_DEFAULT)
At this point tstmpLtz contains a valid time stamp with local time zone data. You
can get the time zone name of the datetime data using:
status = OCIDateTimeGetTimeZoneName(envhp, errhp, tstmpLtz, (ub1 *)buf,
    (ub4 *)&buflen);
```

From <<https://stackoverflow.com/questions/51337345/get-set-timestamp-values-using-oci>>

Demo OCI source codes: <https://github.com/alexeyvo/mongo-c-driver-legacy>

Details of the demo programs: https://docs.oracle.com/cd/E18283_01/appdev.112/e10646/ociabdem.htm

Resource rc definitions and gui dat creation

Tuesday, December 22, 2020 1:25 PM

<https://docs.microsoft.com/en-us/windows/win32/menurc/resource-definition-statements>

<https://docs.microsoft.com/en-us/windows/win32/menurc/menuitem-statement>

<https://docs.microsoft.com/en-us/windows/win32/menurc/resource-compiler>

<https://docs.microsoft.com/en-us/windows/win32/menurc/pri-indexing-reference>

Discussion on Solution Approach for Currency P&L Defect (PMSTA-42659)

Monday, January 4, 2021 3:16 PM

| | |
|----------------------|---|
| Subject | Discussion on Solution Approach for Currency P&L Defect (PMSTA-42659) |
| Link to Outlook Item | Click here |
| From | Sundaram, Satish |
| Required attendees | <input type="checkbox"/> Sundaram, Satish
<input type="checkbox"/> Laxmish Hegde (Accepted in Outlook)
<input type="checkbox"/> Chandrika
<input type="checkbox"/> Ghosh, Kumar Pritish
<input type="checkbox"/> Chakraborty, Somnath
<input type="checkbox"/> Gopalakrishnan, Girish
<input type="checkbox"/> Sabbela, Veera Raghava Reddy
<input type="checkbox"/> Mon Calvin Daal
<input type="checkbox"/> Dhilipan R
<input type="checkbox"/> Satish Sundaram
<input type="checkbox"/> Moorthy, Saravanan
<input type="checkbox"/> Manu Narayan
<input type="checkbox"/> Karthik S
<input type="checkbox"/> Mutaharuddin Syed
<input type="checkbox"/> Manuel Christopher
<input type="checkbox"/> Suchitra
<input type="checkbox"/> Rajendran, Dhilipan
<input type="checkbox"/> Daal, Mon Calvin Acebedo |
| Optional attendees | <input type="checkbox"/> Jithendra
<input type="checkbox"/> Lakshmanan Sampath |
| Meeting Date | |
| Location | Webex Call |

EXTERNAL source. Be CAREFUL with links / attachments

Dear All,

The demo for the historical performance gap (KD-19290-Performance Global Tab Changes) had been given to bank on 09 Dec. During the demo, the issue related to the currency P&L defect (**PMSTA-42659**) was discussed and explained/ demonstrated to the bank. Both the solutions were proposed and bank has chosen Option 2:-

1. **PPS** – and the volume of DB was communicated. As of now, the client does not have any PPS attached to the portfolios and hence, they will check with their technical team (on the volume of DB part) and revert back to us.
2. **Fusion All** – the performance slowdown impact was communicated. They wanted to know the approximate time it will take for the page to load, but nothing can be said as of now as it entirely depends

on the volume of data sets and number of portfolios which they would attach (in case of list).

This call is scheduled to discuss on the work breakdowns involved in the development for Option2.

Different developments involved in historic performance analysis other than the portfolio reference currency are:

1. Exchange rate conversions
 - a. Direct. Position conversions directly to the domain currency
 - b. Indirect method: Conversion into portfolio reference currency. Convert into domain currency.
1. Impacted performance indicators
 - a. Standard & Market linked P&L method
 - b. Realized and Unrealized currency P&L due to direct and indirect method.
1. Functions impacted
 - a. Valuation positions & Operation/position history
 - b. Performance Storage
 - c. Standard performance
 - d. Return Analysis
 - e. Attribution methods
 - f. PPS
 - g. Reports
1. NFR impact on all the above functions

Regards,

Satish

-- Do not delete
or change any of
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**More ways to
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Notes

Curl command usage

Sunday, January 10, 2021 3:31 PM

Making a simple POST request

To make a basic POST request using curl, type the following command on your command-line:

```
curl -X POST https://example.com/
```

The **-X** flag specifies a custom request method to use when communicating with the HTTP server. By default, the **GET** method is used unless some other method is specified.

From <<https://www.educative.io/edpresso/how-to-perform-a-post-request-using-curl>>

Sending additional fields with a POST request

Users can send data with the POST request using the **-d** flag. The following POST request sends a **user** and a **pass** field along with their corresponding values.

```
curl -d "user=user1&pass=abcd" -X POST https://example.com/login
```

POSTing with curl's **-d** option will include a default header that looks like: **Content-Type: application/x-www-form-urlencoded**.

From <<https://www.educative.io/edpresso/how-to-perform-a-post-request-using-curl>>

Specifying the Content-Type in POST request

The **-H** flag can be used to send a specific data type or header with curl. The following command sends a JSON object with the request.

```
curl -d '{json}' -H 'Content-Type: application/json' https://example.com/login
```

From <<https://www.educative.io/edpresso/how-to-perform-a-post-request-using-curl>>

Sending a file using curl

We can also send complete files in the command-line using curl. The command used to do this is:

```
curl --form "fileupload=@my-file.txt" https://example.com/resource.cgi
```

From <<https://www.educative.io/edpresso/how-to-perform-a-post-request-using-curl>>

```
curl -d "param1=value1&param2=value2" -H "Content-Type: application/x-www-form-urlencoded" -X POST http://localhost:3000/data
```

From <<https://gist.github.com/subfuzion/08c5d85437d5d4f00e58>>

With datafile

```
curl -d "@data.txt" -X POST http://localhost:3000/data
```

Data.txt -
param1=value1¶m2=value2

POST application/json
curl -d '{"key1":"value1", "key2":"value2"}' -H "Content-Type: application/json" -X POST <http://localhost:3000/data>

```
curl -d "@data.json" -X POST http://localhost:3000/data
```

data.json

```
{  
    "key1": "value1",  
    "key2": "value2"  
}
```

To get the response from proxy setup:

```
curl -uvsybc232aaa:vsybc232aaavsybc232aaa -p LFPHFN13.temenosgroup.com:8888 http://LFPHFN13.temenosgroup.com:40030/rpc/get\_version
```

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22070300814>>

```
%CURL_HOME%\bin\curl -vk --tlsv1.2 --cert .\odata_dev_ssl.pem --key .\odata_dev_ssl.key --header "UserId:T_A1_Manager1" -X POST https://localhost:41051/remoting/odata/tcib.svc/OrderSessions\('AAaaa01894'\)/asyncPublish
```

From <<http://rd.temenosgroup.com/browse/OCS-54809>>

```
Curl --insecure https://package.microsoft.com/config/rhel/8/prod.repo > /etc/yu/repos.d/msprod.repos
```

RPC Testing using postman

Thursday, January 21, 2021 3:17 PM

The screenshot shows the Postman application interface. On the left, there's a sidebar with a 'History' tab selected, showing a list of recent API requests. Most of these requests are POSTs to `http://LH3FC752.temenosgroup.com:1123/rpc/eval_composite_entity`. There are also a few GET requests listed. The main workspace on the right is titled 'Untitled Request' and shows a POST request to the same endpoint. The 'Body' tab is selected, displaying a JSON payload. The payload includes nested objects for 'GW_DataGroup' and 'GW_Type', with fields like 'language', 'longName', 'code', 'attribute', and 'shortName'. The 'Text' tab is also visible in the body editor. Above the workspace, there are several small preview cards for other requests.

```
27
28
29
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41
42
43
44
45
      {
        "GW_DataGroup": {
          "GW_Type": {
            "GW_clientType": {
              "GW_multilingualLongName": {
                "language": "en",
                "longName": "Individual"
              },
              "code": "1001",
              "attribute": "type_id",
              "shortName": "Individual"
            }
          }
        },
        "GW_DataGroup": {
          "GW_Type": {
```

AAA Install levels

Saturday, February 20, 2021 10:08 PM

To create the roles, temporary tablespaces, datatypes

RUN_AAA_INSTALL=9

Export RUN_AAA_INSTALL

export RUN_AAA_INSTALL=5

Import meta dictionary for the entity nature custo

export IMP_INST_ALL_TABLE=0

export RUN_AAA_INSTALL=6

Install all the meta dictionary tables.

gdb \$AAAHOME/bin/Linux/aaa_ddlgen64 -Uaaaa -Paaaaaaaa -Gda

Oracle Constraint Queries

Monday, February 22, 2021 8:32 PM

```
alter table t1 modify (
    timestamp varchar2(19) CONSTRAINT c_ck_timestamp NOT NULL ENABLE NOVALIDATE,
    generated varchar2(1)  CONSTRAINT c_ck_generated NOT NULL ENABLE NOVALIDATE,
    temporary varchar2(1)  CONSTRAINT c_ck_temporary NOT NULL ENABLE NOVALIDATE
)
;

alter table t1 modify CONSTRAINT c_ck_timestamp VALIDATE;
alter table t1 modify CONSTRAINT c_ck_generated VALIDATE;
alter table t1 modify CONSTRAINT c_ck_temporary VALIDATE;
```

ALTER TABLE *yourtable* **ADD CONSTRAINT** *constraint_name* **CHECK** (*your_column_name* **IS NOT NULL**) **ENABLE NOVALIDATE**;

or

ALTER TABLE *your_table* **MODIFY** (*your_column_name* **NUMBER CONSTRAINT** *constraint_name* **NOT NULL ENABLE NOVALIDATE**);

ALTER TABLE *tab1* **MODIFY** (*c1* **NOT NULL**, *c2* **not null**, *c3* **not null**);

From <<https://community.oracle.com/tech/developers/discussion/4168630/modifying-columns-of-table>>

Make file Updates on New Files

Friday, March 5, 2021 6:22 AM

Windows

1. Remove folder created VS150 in arch/win folder.
2. Re-run the _cm
3. System will create BIT32 and BIT64 in folder arch/win
4. Directly invoke _cmake_vs150_32.bat

```
1>----- Build started: Project: ZERO_CHECK, Configuration: Debug Win32 -----
1>Checking Build System
2>----- Build started: Project: nuodblib, Configuration: Debug Win32 -----
2>Building Custom Rule W:/TA/develop_wtx/triplea_core/nuodblib/src/CMakeLists.txt
2>nuodbconnection.cpp
2>nuodblib01.cpp
2>Generating Code...
2>nuodblib.vcxproj -> W:\TA\develop_wtx\triplea_core\arch\win\VS150\BIT32\nuodblib\Debug\nuodblib.lib
3>----- Build started: Project: dba_obj, Configuration: Debug Win32 -----
3>Building Custom Rule W:/TA/develop_wtx/triplea_core/src/CMakeLists.txt
```

| | |
|------------------------|------------------------------|
| cl md_dict_attribute.c | develop_wtx\triplea_core\... |
| hh md_dict_attribute.h | develop_wtx\triplea_core\... |
| cl md_dyndef.c | develop_wtx\triplea_core\... |
| hh md_dyndef.h | develop_wtx\triplea_core\... |
| cl md_event.c [add] | develop_wtx\triplea_core\... |
| hh md_event.h [add] | develop_wtx\triplea_core\... |
| cl md_map.c [add] | develop_wtx\triplea_core\... |
| hh md_map.h [add] | develop_wtx\triplea_core\... |
| cl md_xd_attribute.c | develop_wtx\triplea_core\... |
| hh md_xd_attribute.h | develop_wtx\triplea_core\... |
| cl md_xd_entity.c | develop_wtx\triplea_core\... |
| hh md_xd_entity.h | develop_wtx\triplea_core\... |
| cl event.c [add] | develop_wtx\triplea_core\... |
| hh event.h [add] | develop_wtx\triplea_core\... |
| cl map.c [add] | develop_wtx\triplea_core\... |
| hh map.h [add] | develop_wtx\triplea_core\... |
| hh dbadef.h | develop_wtx\triplea_core\... |
| cl dbadict.c | develop_wtx\triplea_core\... |
| cl dbadictlib.c | develop_wtx\triplea_core\... |
| cl dbadyn.c | develop_wtx\triplea_core\... |
| cl dbadyndef.c | develop_wtx\triplea_core\... |
| cl dbalib03.c | develop_wtx\triplea_core\... |
| cl dbaprocdef.c | develop_wtx\triplea_core\... |
| cl dbidict.c | develop_wtx\triplea_core\... |
| cl ddngen01.c | develop_wtx\triplea_core\... |
| *+ ddlaenfulltable.cpp | develop_wtx\triplea_core\... |

RPC failures in gatit

Thursday, March 11, 2021 7:22 PM

<https://unix.stackexchange.com/questions/82290/linux-clnt-create-rpc-program-not-registered>

Rpc *clnt_create* is returning failure. You can check the exact reason in /var/log/messages or dmesg or /var/log/syslog. It could be RPC_PROGRAM already busy to open new rpc client.

GUI Online Help File Creation

Thursday, April 1, 2021 3:27 PM

http://laulxc1/db_tools/oams_doc/param_list.phtml#summary

```
ssh cmsbm@laulxc1/00cmsbm
/data/doc_dev/www/db_tools/oams_doc

cmsbm@laulxc1:/users_nas/continuus/ccm_root

/usr/local/apache_2.2.0/htdocs/db_tools
```

general.inc

```
$mysql_hostname = "localhost";
$mysql_username = "aaa";
$mysql_password = "aaaaaa";
$mysql_dbName = "oams_doc";
```

```
cmsbm@laulxc1:/usr/local/apache_2.2.0/htdocs/db_tools> grep sybase_connect *
c_struct_check.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
data_transfert.phtml:$db_link_src = sybase_connect ("$db_src","aaa","aaaaaa");
data_transfert.phtml: $db_link_dst = sybase_connect ("$db_dst","sa","");
display_da.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
display_size.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
empty_query.phtml: $db_link = sybase_connect ($db,"aaa","aaaaaa");
grant_privileges.phtml: $db_link = sybase_connect ($db,"aaa","aaaaaa");
locking_scheme.phtml: $db_link = sybase_connect ($db,"aaa","aaaaaa");
metadict_desc.phtml: // $db_link = sybase_connect ("$db","aaa","aaaaaa","UTF8");
metadict_desc.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
nature_control.phtml: $db_link = sybase_connect ($db,"aaa","aaaaaa");
nature_display.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
object_depends.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
p_table_list.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
proc_search.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
query.phtml: $db_link = sybase_connect ($db,"aaa","aaaaaa");
stm_even_control.phtml: $db_link = sybase_connect ($db,"aaa","aaaaaa");
sybase_test.phtml: $db_link = sybase_connect ("MAIN_DBA","aaa","aaaaaa");
table_content.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
table_delete.phtml: $db_link = sybase_connect ("$db","sa","71avantage");
table_details.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
table_list.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
table_size.phtml: $db_link = sybase_connect ("$db","aaa","aaaaaa");
test2.phtml: // $db_link = sybase_connect ($sybase_alias,$sybase_username,$sybase_password);
test2.phtml: $db_link = sybase_connect ("MAIN_DVP","aaa","aaaaaa");
```

All the html documents can be found at

cmsbm@laulxc1:/usr/local/apache_2.2.0/htdocs/db_tools

Generating AWR report

Monday, May 3, 2021 6:57 PM

Generating an AWR Compare Periods Report for the Local Database

The awrddrpt.sql SQL script generates an HTML or text report that compares detailed performance attributes and configuration settings between two selected time periods on the local database instance.

From <https://docs.oracle.com/database/121/TGDBA/compare_stats.htm#TGDBA95284>

To generate an AWR Compare Periods report on the local database instance using the command-line interface:

1. At the SQL prompt, enter:
 @\$ORACLE_HOME/rdbms/admin/awrddrpt.sql
2. Specify whether you want an HTML or a text report:
 Enter value for report_type: html

In this example, an HTML report is chosen.

3. Specify the number of days for which you want to list snapshot IDs in the first time period.
 Enter value for num_days: 2

A list of existing snapshots for the specified time range is displayed. In this example, snapshots captured in the last 2 days are displayed.

4. Specify a beginning and ending snapshot ID for the first time period:

 Enter value for begin_snap: 102

 Enter value for end_snap: 103

In this example, the snapshot with a snapshot ID of 102 is selected as the beginning snapshot, and the snapshot with a snapshot ID of 103 is selected as the ending snapshot for the first time period.

5. Specify the number of days for which you want to list snapshot IDs in the second time period.

 Enter value for num_days2: 1

A list of existing snapshots for the specified time range is displayed. In this example, snapshots captured in the previous day are displayed.

6. Specify a beginning and ending snapshot ID for the second time period:

 Enter value for begin_snap2: 126

 Enter value for end_snap2: 127

In this example, the snapshot with a snapshot ID of 126 is selected as the beginning snapshot, and the snapshot with a snapshot ID of 127 is selected as the ending snapshot for the second time period.

7. Enter a report name, or accept the default report name:

 Enter value for report_name:

 Using the report name awrddiff_1_102_1_126.txt

In this example, the default name is accepted and an AWR report named awrddiff_1_102_1_126 is generated.

Generating an AWR Compare Periods Report for a Specific Database

The awrddrpi.sql SQL script generates an HTML or text report that compares detailed performance attributes and configuration settings between two selected time periods on a specific database and instance. This script enables you to specify a database identifier and instance for which AWR Compare Periods report will be generated.

To generate an AWR Compare Periods report on a specific database instance using the command-line interface:

1. At the SQL prompt, enter:
 @\$ORACLE_HOME/rdbms/admin/awrddrpi.sql
2. Specify whether you want an HTML or a text report:
 Enter value for report_type: text

In this example, a text report is chosen.

3. A list of available database identifiers and instance numbers are displayed:

Instances in this Workload Repository schema

| DB Id | Inst Num | DB Name | Instance | Host |
|------------|----------|---------|----------|-----------|
| 3309173529 | 1 | MAIN | main | examp1690 |
| 3309173529 | 1 | TINT251 | tint251 | samp251 |

Enter the values for the database identifier (dbid) and instance number (inst_num) for the first time period:

Enter value for dbid: 3309173529

Using 3309173529 for Database Id for the first pair of snapshots

Enter value for inst_num: 1

Using 1 for Instance Number for the first pair of snapshots

4. Specify the number of days for which you want to list snapshot IDs in the first time period.

Enter value for num_days: 2

A list of existing snapshots for the specified time range is displayed. In this example, snapshots captured in the last 2 days are displayed.

5. Specify a beginning and ending snapshot ID for the first time period:

 Enter value for begin_snap: 102

 Enter value for end_snap: 103

In this example, the snapshot with a snapshot ID of 102 is selected as the beginning snapshot, and the snapshot with a snapshot ID of 103 is selected as the ending snapshot for the first time period.

6. Enter the values for the database identifier (dbid) and instance number (inst_num) for the second time period:

Enter value for dbid2: 3309173529

Using 3309173529 for Database Id for the second pair of snapshots

Enter value for inst_num2: 1

Using 1 for Instance Number for the second pair of snapshots

7. Specify the number of days for which you want to list snapshot IDs in the second time period.

Enter value for num_days2: 1

A list of existing snapshots for the specified time range is displayed. In this example, snapshots captured in the previous day are displayed.

8. Specify a beginning and ending snapshot ID for the second time period:

 Enter value for begin_snap2: 126

 Enter value for end_snap2: 127

In this example, the snapshot with a snapshot ID of 126 is selected as the beginning snapshot, and the snapshot with a snapshot ID of 127 is selected as the ending snapshot for the second time period.

9. Enter a report name, or accept the default report name:

 Enter value for report_name:

 Using the report name awrddiff_1_102_1_126.txt

In this example, the default name is accepted and an AWR report named awrddiff_1_102_1_126 is generated on the database instance with a database ID value of 3309173529.

From <https://docs.oracle.com/database/121/TGDBA/compare_stats.htm#TGDBA95284>

/tap/oracle/product/12.2.0.1/main/bin->sqlplus "/as sysdba"

SQL*Plus: Release 12.2.0.1 Production on Mon May 3 13:31:50 2021

Copyright (c) 1982, 2016, Oracle. All rights reserved.

Connected to:

Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL> @\$ORACLE_HOME/rdbms/admin/awrddrpi.sql

Specify the Report Type

Would you like an HTML report, or a plain text report?

Enter 'html' for an HTML report, or 'text' for plain text

Defaults to 'html'

Enter value for report_type:

Type Specified: html

Instances in this Workload Repository schema

| DB Id | Inst Num | DB Name | Instance | Host |
|--------------|----------|---------|----------|--------------|
| * 1034595503 | 1 | CLX | CLX | myserver.tem |

Database Id and Instance Number for the First Pair of Snapshots

Enter value for dbid: 1034595503

Using 1034595503 for Database Id for the first pair of snapshots

Enter value for inst_num: 1

Using 1 for Instance Number for the first pair of snapshots

Specify the number of days of snapshots to choose from

Entering the number of days (n) will result in the most recent
(n) days of snapshots being listed. Pressing <return> without
specifying a number lists all completed snapshots.

Enter value for num_days: 5

Listing the last 5 days of Completed Snapshots

| Instance | DB Name | Snap Id | Snap Started | Snap Level |
|----------|---------|---------|--------------|------------|
|----------|---------|---------|--------------|------------|

| | | | | |
|-----|-----|------|-------------------|---|
| CLX | CLX | 1684 | 29 Apr 2021 03:21 | 1 |
| | | 1685 | 29 Apr 2021 04:00 | 1 |
| | | 1686 | 29 Apr 2021 05:00 | 1 |
| | | 1687 | 29 Apr 2021 06:01 | 1 |
| | | 1688 | 29 Apr 2021 07:00 | 1 |
| | | 1689 | 29 Apr 2021 08:00 | 1 |
| | | 1690 | 29 Apr 2021 09:00 | 1 |
| | | 1691 | 29 Apr 2021 10:00 | 1 |
| | | 1692 | 29 Apr 2021 11:00 | 1 |
| | | 1693 | 29 Apr 2021 12:00 | 1 |
| | | 1694 | 29 Apr 2021 13:00 | 1 |
| | | 1695 | 29 Apr 2021 14:00 | 1 |
| | | 1696 | 29 Apr 2021 15:00 | 1 |
| | | 1697 | 29 Apr 2021 16:00 | 1 |
| | | 1698 | 29 Apr 2021 17:01 | 1 |
| | | 1699 | 29 Apr 2021 18:00 | 1 |
| | | 1700 | 29 Apr 2021 19:00 | 1 |
| | | 1701 | 03 May 2021 04:09 | 1 |
| | | 1702 | 03 May 2021 05:00 | 1 |
| | | 1703 | 03 May 2021 06:00 | 1 |
| | | 1704 | 03 May 2021 07:00 | 1 |
| | | 1705 | 03 May 2021 08:00 | 1 |
| | | 1706 | 03 May 2021 09:00 | 1 |
| | | 1707 | 03 May 2021 10:00 | 1 |
| | | 1708 | 03 May 2021 11:00 | 1 |
| | | 1709 | 03 May 2021 12:00 | 1 |
| | | 1710 | 03 May 2021 13:01 | 1 |

Specify the First Pair of Begin and End Snapshot Ids

Enter value for begin_snap: 1686

First Begin Snapshot Id specified: 1686

Enter value for end_snap: 1691

First End Snapshot Id specified: 1691

Instances in this Workload Repository schema

| DB Id | Inst Num | DB Name | Instance | Host |
|--------------|----------|---------|----------|--------------|
| * 1034595503 | 1 | CLX | CLX | myserver.tem |

Database Id and Instance Number for the Second Pair of Snapshots

Enter value for dbid2: 1034595503

Using 1034595503 for Database Id for the second pair of snapshots

Enter value for inst_num2: 1

Using 1 for Instance Number for the second pair of snapshots

Specify the number of days of snapshots to choose from

Entering the number of days (n) will result in the most recent
(n) days of snapshots being listed. Pressing <return> without

specifying a number lists all completed snapshots.

Enter value for num_days2: 4

Listing the last 4 days of Completed Snapshots

| | | |
|------|-------------------|---|
| 1701 | 03 May 2021 04:09 | 1 |
| 1702 | 03 May 2021 05:00 | 1 |
| 1703 | 03 May 2021 06:00 | 1 |
| 1704 | 03 May 2021 07:00 | 1 |
| 1705 | 03 May 2021 08:00 | 1 |
| 1706 | 03 May 2021 09:00 | 1 |
| 1707 | 03 May 2021 10:00 | 1 |
| 1708 | 03 May 2021 11:00 | 1 |
| 1709 | 03 May 2021 12:00 | 1 |
| 1710 | 03 May 2021 13:01 | 1 |

Specify the Second Pair of Begin and End Snapshot Ids

Enter value for begin_snap2: 1705

Second Begin Snapshot Id specified: 1705

Enter value for end_snap2: 1708

Second End Snapshot Id specified: 1708

Specify the Report Name

The default report file name is awrdiff_1_1686_1_1705.html To use this name,
press <return> to continue, otherwise enter an alternative.

Enter value for report_name:

Using the report name awrdiff_1_1686_1_1705.html

```
<html lang="en"><head><title>AWR Compare Period Report for (1) DB: CLX, Inst: CLX, Snaps: 1686-1691 (2) DB: CLX, Inst: CLX, Snaps: 1705-1708</title>
<style type="text/css">
body.awr {font:bold 10pt Arial,Helvetica,Geneva,sans-serif;color:black; background:White;}
pre.awr {font:8pt Courier;color:black; background:White;}
h1.awr {font:bold 20pt Arial,Helvetica,Geneva,sans-serif;color:#336699;background-color:White;border-bottom:1px solid #cccc99;margin-top:0pt; margin-bottom:0pt;padding:0px 0px 0px 0px;}
h2.awr {font:bold 18pt Arial,Helvetica,Geneva,sans-serif;color:#336699;background-color:White;margin-top:4pt; margin-bottom:0pt;}
h3.awr {font:bold 16pt Arial,Helvetica,Geneva,sans-serif;color:#336699;background-color:White;margin-top:4pt; margin-bottom:0pt;}
li.awr {font: 8pt Arial,Helvetica,Geneva,sans-serif; color:black; background:White;}
th.awrnbg {font:bold 8pt Arial,Helvetica,Geneva,sans-serif; color:White; background:#0066CC;padding-left:4px; padding-right:4px;padding-bottom:2px}
th.awrbg {font:bold 8pt Arial,Helvetica,Geneva,sans-serif; color:White; background:#0066CC;padding-left:4px; padding-right:4px;padding-bottom:2px}
td.awrnc {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:#FFFFCC; vertical-align:top;}
td.awrc {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:#FFFFCC; vertical-align:top;}
td.awrncb {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:White;vertical-align:left; border-left: thin solid black;}
td.awrncbb {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:White;vertical-align:left; thin solid black; border-right: thin solid black;}
td.awrncr {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:White;vertical-align:top; border-left: thin solid black; border-right: thin solid black;}
td.awrncrl {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:#FFFFCC; vertical-align:top; border-left: thin solid black; border-right: thin solid black;}
td.awrncrb {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:#FFFFCC; vertical-align:top; border-left: thin solid black; border-right: thin solid black;}
td.awrncrb {font:8pt Arial,Helvetica,Geneva,sans-serif; color:#663300; vertical-align:top; margin-top:0pt; margin-bottom:0pt;}
td.awrnct {font:8pt Arial,Helvetica,Geneva,sans-serif; border-top: thin solid black; color:black;background:White;vertical-align:top;}
td.awrct {font:8pt Arial,Helvetica,Geneva,sans-serif; border-top: thin solid black; color:black;background:#FFFFCC; vertical-align:top;}
td.awrnclt {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:White;vertical-align:top; border-top: thin solid black; border-left: thin solid black;}
td.awrncbtt {font:8pt Arial,Helvetica,Geneva,sans-serif; color:black;background:White;vertical-align:top; border-left: thin solid black; border-right: thin solid black; border-top: thin solid black;}
...
...
<tr><td scope="row" class="awrc"><a class="awr" href="#gsasht7ckk68m">Back to Top</a></td><td class="awrc">select /* QOSD */exp_id, objn from exp_head$ e where ((select max(nvl(es.last_modified, es.ctime)) from exp_stat$ es where es.objn = e.objn and es.exp_id = e.exp_id) &lt; sysdate - 367 or not exists (select 1 from sys.obj$ o where o.obj# = e.objn)) and rownum &lt; :batch_size</td></tr>
</table>
<p />
<br /><a class="awr" href="#top">Back to Top</a><p />
<p />
</body></html>
```

Report written to awrdiff_1_1686_1_1705.html
SQL>

=====

To generate an AWR Compare Periods report for Oracle RAC on a specific database using the command-line interface:

1. At the SQL prompt, enter:
 @\$ORACLE_HOME/rdbms/admin/awrgdrpi.sql
2. Specify whether you want an HTML or a text report:
 Enter value for report_type: html

In this example, an HTML report is chosen.

3. A list of available database identifiers and instance numbers are displayed:

Instances in this Workload Repository schema

DB Id	Inst Num	DB Name	Instance	Host
3309173529	1	MAIN	main	examp1690
3309173529	1	TINT251	tint251	samp251
3309173529	2	TINT251	tint252	samp252
3309173529	3	TINT251	tint253	samp253
3309173529	4	TINT251	tint254	samp254

Enter the values for the database identifier (dbid) and instance number (instance_numbers_or_all) for the first time period:

Enter value for dbid: 3309173529

Using 3309173529 for Database Id for the first pair of snapshots

Enter value for inst_num: 1,2

Using instances 1 for the first pair of snapshots

4. Specify the number of days for which you want to list snapshot IDs in the first time period.

Enter value for num_days: 2

A list of existing snapshots for the specified time range is displayed. In this example, snapshots captured in the last 2 days are displayed.

5. Specify a beginning and ending snapshot ID for the first time period:

Enter value for begin_snap: 102

Enter value for end_snap: 103

In this example, the snapshot with a snapshot ID of 102 is selected as the beginning snapshot, and the snapshot with a snapshot ID of 103 is selected as the ending snapshot for the first time period.

6. A list of available database identifiers and instance numbers are displayed:

Instances in this Workload Repository schema

DB Id	Inst Num	DB Name	Instance	Host
3309173529	1	MAIN	main	examp1690
3309173529	1	TINT251	tint251	samp251
3309173529	2	TINT251	tint252	samp252
3309173529	3	TINT251	tint253	samp253
3309173529	4	TINT251	tint254	samp254
INSTNUM1				

1,2

Enter the values for the database identifier (dbid2) and instance numbers (instance_numbers_or_all2) for the second time period:

Enter value for dbid2: 3309173529

Using 3309173529 for Database Id for the second pair of snapshots

Enter value for instance_numbers_or_all2: 3,4

7. Specify the number of days for which you want to list snapshot IDs in the second time period.

Enter value for num_days2: 1

A list of existing snapshots for the specified time range is displayed. In this example, snapshots captured in the previous day are displayed.

8. Specify a beginning and ending snapshot ID for the second time period:

Enter value for begin_snap2: 126

Enter value for end_snap2: 127

In this example, the snapshot with a snapshot ID of 126 is selected as the beginning snapshot, and the snapshot with a snapshot ID of 127 is selected as the ending snapshot for the second time period.

9. Enter a report name, or accept the default report name:

Enter value for report_name:

Using the report name awrracdiff_1st_1_2nd_1.html

In this example, the default name is accepted and an AWR report named awrrac_1st_1_2nd_1.html is generated.

From <https://docs.oracle.com/database/121/TGDBA/compare_stats.htm#TGDBA275>

Sybase boot failure signal 11 - os version and sybase compatibility

31 August 2023 12:31

<https://me.sap.com/notes/3018138/E>

3018138 - Server fails to boot after signal 11 with Snap::Validate - SAP ASE

Component: BC-SYB-ASE (Sybase ASE Database Platform (non Business Suite)), Version: 15, Released On: 19.07.2023

Symptom

- During boot ASE hits a signal 11 with no function in Address
- With a stack trace including function **Snap::Validate**
- As a result the ASE server fails to start. The errorlog shows a sequence including:
 - The full stack trace is attached in file Full_Stack_Trace_SnapValidate

Current process (0x1d000f) infected with signal 11 (SIGSEGV)

Address 0x00007efda8089360 () ...

()

Snap::Validate

SnapValidation

dsinit

Warning: The internal timer is not progressing. If this message is generated multiple times, report to SAP Technical Support and restart the server (alarminterval=0).

Environment

- SAP Adaptive Server Enterprise (ASE) 16.0 SP03 & SP04
- Linux OS

Cause

This issue is seen when there is an incompatibility between ASE compiler and OS (patch) versions. It has been reported on several Linux distributions, for supported OS versions and a number of derived kernels. Most commonly, it is reported on Suse 15 SP4 and RedHat 8.8.

The issue is logged under CR 824104:

The message, "Current process infected with signal 11 (SIGSEGV)", with a stack trace which includes the modules 'Snap::Validate' and 'SnapValidation' is reported in the SAP ASE error log when the 'simplified native access plan' fails to initialize at boot time even if it is not enabled.

Resolution

- Upgrade ASE to a release with fix for CR 824104:
 - SAP ASE 16.0 SP03 PL11
 - SAP ASE 16.0 SP04 PL01
- Workaround for already built servers, where issue is seen after OS upgrade:
 - Enable ASE traceflag 11889 by appending "-T11889" in the RUN_<server> file.
This traceflag prevents initialization of the "Simplified Native Access Plan (SNAP)" feature during boot.
When using this TF, DO NOT enable "simplified native access plan"

Example:

```
/sybase/ASE-16_0/bin/dataserver \
-d/sybase/data/master.dat \
-e/sybase/ASE-16_0/install/ASE_LINUX.log \
-c/sybase/ASE-16_0/ASE_LINUX.cfg \
-M/sybase/ASE-16_0 \
-sASE_LINUX \
-T11889 \
```

- There is no workaround for situation where a new ASE server, below the above release levels, is being built on an OS release where the issue is present. This is due to the fact that the trace flag cannot be applied during a server build.

To allow a server to be built:

- Either upgrade ASE release or
- Downgrade OS (patch) version

See Also

- KBA [1904061](#) - How to check the current status of an ASE CR (Change Request)
- KBA [3095878](#) - Understanding Stack Traces
- KBA [2601033](#) - How to boot ASE with trace flags - SAP ASE

Oracle Patch level SQL

Wednesday, May 5, 2021 9:51 AM

SET LINESIZE 500

SET PAGESIZE 1000

SET SERVEROUT ON

SET LONG 2000000

COLUMN action_time FORMAT A12

COLUMN action FORMAT A10

COLUMN patch_type FORMAT A10

COLUMN description FORMAT A32

COLUMN status FORMAT A10

COLUMN version FORMAT A10

alter session set “_exclude_seed_cdb_view”=FALSE;

spool check_patches_19c.txt

select CON_ID,

TO_CHAR(action_time, ‘YYYY-MM-DD’) AS action_time,

PATCH_ID,

PATCH_TYPE,

ACTION,

DESCRIPTION,

SOURCE_VERSION,

TARGET_VERSION

from CDB_REGISTRY_SQLPATCH

order by CON_ID, action_time, patch_id;

spool off

From <<https://oracledbwr.com/apply-patching-on-oracle-19c-database-release-update-19-5-0-0-0/>>

Importing sys and MD tables on the prompt

Tuesday, May 18, 2021 2:18 PM

```
export IMP_INST_ALL_TABLE=0  
export RUN_AAA_INSTALL=2
```

```
>aaa IMP -U -P -N <import file>
```

Oracle Support - Logging the issue

Wednesday, May 19, 2021 9:41 AM

[My Oracle Support \(https://support.oracle.com/portal/\)](https://support.oracle.com/portal/)

fmatoshi@temenos.com/Temenos123

Virtual Columns & Function based index management

Friday, June 4, 2021 10:05 PM

```
alter session set current_schema=PERMTSLDB;
drop index PERMTSLDB.TASC_INVA_TECH_1376_IDX;
create unique index PERMTSLDB.TASC_INVA_TECH_1376_IDX on PERMTSLDB.TASC_INVALIDATION(SYS_OP_MAP_NONNULL(entity_dict_id),
SYS_OP_MAP_NONNULL(object_id), owner_business_entity_id ) tablespace AAATSLDB1_IDX_SEG1 initrans 10;
select column_name, data_default, hidden_column from user_tab_cols where table_name like '%TASC%';
select * from user_tab_cols where table_name like '%TASC%';
desc sys.user_tab_cols;
select * from permstldb.tasc_invalidation;
alter table permstldb.tasc_invalidation drop column sys_nc00008$;
=====
select * from PERMTSLDB.JOBL_JOB_CHUNK;
alter table PERMTSLDB.JOBL_JOB_CHUNK drop column SYS_NC00010$;
create index PERMTSLDB.JOBL_JOB_CHU_TECH_272_IDX on PERMTSLDB.JOBL_JOB_CHUNK(job_instance_id, SYS_OP_MAP_NONNULL(success_n)) tablespace AAATSLDB1_IDX_SEG1;
=====
```

<https://oracle-base.com/articles/8i/function-based-indexes>

Table PERMTSLDB.TASC_INVALIDATION altered.

Table PERMTSLDB.TASC_INVALIDATION altered.

Index PERMTSLDB.TASC_INVA_TECH_1376_IDX created.

Table PERMTSLDB.JOBL_JOB_CHUNK altered.

Index PERMTSLDB.JOBL_JOB_CHU_TECH_272_IDX created.

Creating Virtual Columns

The syntax for defining a virtual column is listed below.

column_name [datatype] [generated always] as (expression) [virtual]
If the datatype is omitted, it is determined based on the result of the expression. The GENERATED ALWAYS and VIRTUAL keywords are options, and provided for clarity only.
The script below creates and populates a table to hold products. It includes a virtual column to display the price with tax included. In this case we've increased the price value by 20%, and rounded the result to 2 decimal places. The expression can include functions, but it must be deterministic.

```
create table t1 (
  id      number,
  product  varchar2(50),
  price    number(10,2),
  price_with_tax number(10,2) generated always as (round(price*1.2,2)) virtual
);
```

We describe the table, and the PRICE_WITH_TAX column looks like a normal column.

SQL> desc t1;

Name Null? Type

ID	NUMBER
PRODUCT	VARCHAR2(50)
PRICE	NUMBER(10,2)
PRICE_WITH_TAX	NUMBER(10,2)

SQL>

We insert data into the table. Notice we've not referenced the PRICE_WITH_TAX column.

```
insert into t1 (id, product, price) values (1, 'computer', 1500);
insert into t1 (id, product, price) values (2, 'bike', 1000);
commit;
```

We query the table, and we can see the PRICE_WITH_TAX column displays the correct value. The PRICE column value plus 20%.

column product format a15

```
select * from t1;
ID PRODUCT      PRICE PRICE_WITH_TAX
```

1 computer	1500	1800
2 bike	1000	1200

SQL>

There is an example of adding a virtual column to an existing table below.

Altering Virtual Columns

We can alter the virtual column expression using the ALTER TABLE MODIFY command. In the following example we increase the tax to 30%. Notice we don't include any of the optional keywords. When we query the table, the PRICE_WITH_TAX column reflects the change.

```
alter table t1 modify (
  price_with_tax number(10,2) as (round(price*1.3,2))
);
```

```
select * from t1;
ID PRODUCT      PRICE PRICE_WITH_TAX
```

1 computer	1500	1950
2 bike	1000	1300

SQL>

We'll change the tax back to 20% using a different method. We drop the virtual column using the ALTER TABLE ... DROP COLUMN command, then add a new virtual column to the existing table using the ALTER TABLE ... ADD command. When we query the table, the PRICE_WITH_TAX column reflects the change.

```
alter table t1 drop column price_with_tax;
```

```
alter table t1 add (
  price_with_tax number(10,2) as (round(price*1.2,2))
);
```

```
select * from t1;
ID PRODUCT      PRICE PRICE_WITH_TAX
```

1 computer	1500	1800
2 bike	1000	1200

SQL>

Views

The [DBA|ALL|USER].TAB_COLS views includes columns called VIRTUAL_COLUMN and DATA_DEFAULT. We can see the PRICE_WITH_TAX column is marked as a virtual column, and the DATA_DEFAULT column displays the expression used to derive the value.

column column_name format a20

column virtual_column format a14

column data_default format a20

```
select column_id, column_name, virtual_column, data_default
from user_tab_cols
```

```

where table_name = 'T1'
order by column_id;
COLUMN_ID COLUMN_NAME      VIRTUAL_COLUMN DATA_DEFAULT
-----
1 ID          NO
2 PRODUCT     NO
3 PRICE       NO
4 PRICE_WITH_TAX YES    ROUND("PRICE"**1.2,2)
SQL>
```

Restrictions

Notes and restrictions on virtual columns include:

- Indexes defined against virtual columns are equivalent to function-based indexes.
- Virtual columns can be referenced in the WHERE clause of updates and deletes, but they cannot be manipulated by DML.
- Tables containing virtual columns can still be eligible for result caching.
- Functions in expressions must be deterministic at the time of table creation, but can subsequently be recompiled and made non-deterministic without invalidating the virtual column. In such cases the following steps must be taken after the function is recompiled:
 - Constraint on the virtual column must be disabled and re-enabled.
 - Indexes on the virtual column must be rebuilt.
 - Materialized views that access the virtual column must be fully refreshed.
 - The result cache must be flushed if cached queries have accessed the virtual column.
 - Table statistics must be regathered.
- Virtual columns are not supported for index-organized, external, object, cluster, or temporary tables.
- The expression used in the virtual column definition has the following restrictions:
 - It cannot refer to another virtual column by name.
 - It can only refer to columns defined in the same table.
 - If it refers to a deterministic user-defined function, it cannot be used as a partitioning key column.
 - The output of the expression must be a scalar value. It cannot return an Oracle supplied datatype, a user-defined type, or LOB or LONG RAW.

Here is an example of [Virtual Column-Based Partitioning](#).

For more information see:

- [CREATE TABLE](#)
- [Virtual Columns in Oracle Database 11g Onward](#)
- [Virtual Column-Based Partitioning](#)

From <<https://oracle-base.com/articles/11g/virtual-columns-11gr1>>

```

select column_name, data_default, hidden_column
from user_tab_cols
where table_name = 'TAB';
COLUMN_NAME      DATA_DEFAULT      HID
-----
SYS_STUPW88OE302TFVBNC6$MMQXE SYS_OP_COMBINED_HASH("X","Y"  YES
Z                      NO
Y                      NO
X                      NO
```

The SYS... column isn't in the table DDL! Where does it come from? And what's SYS_OP_COMBINED_HASH all about? Has someone been mucking around with the database? The SYS_ prefix is a sign that the column is system generated. So something's happened that's caused Oracle to create this on our behalf.

SYS_OP_COMBINED_HASH is an undocumented feature. The name implies Oracle is merging the arguments together to form a hash.

Is there a feature where we want to capture information about a group of columns?

Indeed there is: [extended statistics](#)! This feature enables Oracle to calculate statistics on a group of columns. It uses this information to improve row estimates. This is useful when there's a correlation between the values of two (or more) columns in a table.

Someone had created extended stats on this table for (x, y).

Now we've identified the problem, how do we get around it?

Simple: drop and recreate the extended stats:

```
exec dbms_stats.drop_extended_stats(user,'tab','(x,y)');
alter table tab modify (y timestamp);
```

```
select dbms_stats.create_extended_stats(user,'tab','(x,y)')
from dual;
```

```
DBMS_STATS.CREATE_EXTENDED_STATS(USER,'TAB','(X,Y)')
```

```
SYS_STUPW88OE302TFVBNC6$MMQXE
```

Success!

Extended stats are a great way to improve the optimizer's row estimates. If you need to create these, I recommend you also do the following:

- Apply the extended stats to all environments
- Put a comment on the columns explaining what you've done, e.g.
- comment on column tab.x is 'part of extended stats. To modify data type drop and recreate stats'.

These actions will help prevent future developers getting stuck tracking down the cause of "missing" virtual columns!

From <<https://blogs.oracle.com/sql/ora-54033-and-the-hidden-virtual-column-mystery>>

<https://blogs.oracle.com/optimizer/extended-statistics>

```

SQL> SELECT count(*)
  2  FROM  Customers
  3 WHERE CUST_STATE_PROVINCE = 'CA'
  4 AND  COUNTRY_ID = 52790;
COUNT(*)
-----  

      3341  

SQL> select * from table(dbms_xplan.display_cursor());
PLAN_TABLE_OUTPUT
-----
SQL_ID b0crw85nx32k, child number 0
SELECT count(*) FROM  Customers WHERE CUST_STATE_PROVINCE = 'CA' AND
COUNTRY_ID = 52790
Plan hash value: 296924608

| Id | Operation          | Name        | Rows  | Bytes | Cost (%CPU) | Time     |
| 0 | SELECT STATEMENT   |             | 1    | 16    | 278 (100)  |          |
| 1 |  SORT AGGREGATE    |             | 1    | 16    |            |          |
|* 2 |   TABLE ACCESS STORAGE FULL | CUSTOMERS | 1090 | 17440 | 278 (1) 00:00:01 |          |

Predicate Information (identified by operation id):
-----
2 - storage(("CUST_STATE_PROVINCE"='CA' AND "COUNTRY_ID"=52790))
   Filter(("CUST_STATE_PROVINCE"='CA' AND "COUNTRY_ID"=52790))

SQL> SELECT DBMS_STATS.CREATE_EXTENDED_STATS(null),customers'.((country_id,cust_state_province))'
  2  FFCM  dual;
DBMS_STATS.CREATE_EXTENDED_STATS(NUL...'CUSTOMERS'.((COUNTRY_ID,CUST_STATE_PROVINCE))'
-----  

SYS ST1 1MMLR/HJSJQUBXW4 IRK4
SQL:
SQL - Exec DBMS_STATS.GATHER_TABLE_STATS(null, customers');
PL/SQL procedure successfully completed.

```

After creating the extended statistics and regather statistics, you will see a system generated column name in USER_TAB_COL_STATISTICS, which represents the new column group. A subset of statistics are maintained for column groups including:

- ◊ Number of distinct values
- ◊ Number of Nulls
- ◊ Histograms

```

SQL> SELECT column_name, num_distinct, num_nulls, histogram
  2  FROM  user_tab_col_statistics
  3 WHERE  table_name='CUSTOMERS';
COLUMN_NAME          NUM_DISTINCT  NUM_NULLS HISTOGRAM
-----  

SYS_STUJGVLRVHSUSVIU$XNV4_IR#4  145  0  NONE
CUST_ID              55500  0  NONE
CUST_FIRST_NAME      1300  0  NONE
CUST_LAST_NAME       908  0  NONE
CUST_GENDER           2  0  NONE
CUST_YEAR_OF_BIRTH    75  0  NONE
CUST_MARITAL_STATUS  11  17428  NONE
CUST_STREET_ADDRESS  49900  0  NONE
CUST_POSTAL_CODE      623  0  NONE
CUST_CITY              620  0  NONE
CUST_CITY_ID           620  0  HEIGHT BALANCED
CUST_STATE_PROVINCE    145  0  FREQUENCY
CUST_STATE_PROVINCE_ID 145  0  FREQUENCY
COUNTRY_ID             19  0  FREQUENCY
CUST_MAIN_PHONE_NUMBER 51344  0  NONE
CUST_INCOME_LEVEL      12  41  NONE
CUST_CREDIT_LIMIT       8  0  NONE
CUST_EMAIL              1699  0  NONE
CUST_TOTAL               1  0  NONE
CUST_TOTAL_ID            1  0  FREQUENCY
CUST_SRC_ID              0  55500  NONE
CUST_EFF_FROM             1  0  NONE
CUST_EFF_TO                0  55500  NONE
CUST_VALID                 2  0  NONE

```

So now we have statistics on the column group lets confirm that is enough information for the optimizer to get the correct estimation.

```

SQL> SELECT count(*)
  2  FROM Customers
  3 WHERE CUST_STATE_PROVINCE = 'CA'
  4 AND COUNTRY_ID = 52790;
COUNT(*)
-----  

  5341  

SQL> select * from table(dbms_xplan.display_cursor());
PLAN_TABLE_OUTPUT
SQL_ID b8rcrw85nx32k, child number 0
SELECT count(*) FROM Customers WHERE CUST_STATE_PROVINCE = 'CA' AND
COUNTRY_ID = 52790
Plan hash value: 296924608

| Id | Operation          | Name      | Rows   | Bytes | Cost (%CPU)| Time     |
| 0 | SELECT STATEMENT   |           |        |       |    278 (100) |          |
| 1 |  SORT AGGREGATE    |           |    1    |    16  |            |          |
|* 2 |   TABLE ACCESS STORAGE FULL| CUSTOMERS | 1200   | 19200 |    278  (1)| 00:00:01 |


```

Predicate Information (identified by operation id):

```

2 - storage(("CUST_STATE_PROVINCE"='CA' AND "COUNTRY_ID"=52790))
  filter(("CUST_STATE_PROVINCE"='CA' AND "COUNTRY_ID"=52790))

```

The cardinality estimate is still off. Why did the extended statistics not help in this case? The extended statistics were not actually used here. If you look back at the output from USER_TAB_COL_STATISTICS you can see there is a histogram created on the *country_id* and *cust_state_province* columns. However, there is no histogram created on the column group. Because a histogram provides the optimizer with more information than standard statistics the optimizer ignores the extended statistics and uses the individual column statistics instead.

Since we have executed the query again, the optimizer will have recorded that a histogram on the created extension is beneficial for the query. A histogram will be automatically created on the column group the next time statistics are gathered on the table

```

SQL> Exec DBMS_STATS.GATHER_TABLE_STATS(null,'customers');
PL/SQL procedure successfully completed.
SQL> SELECT column_name, num_distinct, num_nulls, histogram
  2  FROM user_tab_col_statistics
  3 WHERE table_name='CUSTOMERS';

COLUMN_NAME          NUM_DISTINCT  NUM_NULLS HISTOGRAM
SYS_STUJGVLRVHSUSVBU$XNV4_IR#4          145        0 FREQUENCY
CUST_ID                  55500        0 NONE
CUST_FIRST_NAME          1300         0 NONE
CUST_LAST_NAME           908          0 NONE
CUST_GENDER                2          0 NONE
CUST_YEAR_OF_BIRTH         75          0 NONE
CUST_MARITAL_STATUS        11         17428 NONE
CUST_STREET_ADDRESS        49900        0 NONE
CUST_POSTAL_CODE            623          0 NONE
CUST_CITY                  620          0 NONE
CUST_CITY_ID                620          0 HEIGHT BALANCED
CUST_STATE_PROVINCE          145          0 FREQUENCY
CUST_STATE_PROVINCE_ID        145          0 FREQUENCY
COUNTRY_ID                  19          0 FREQUENCY
CUST_MAIN_PHONE_NUMBER        51344        0 NONE
CUST_INCOME_LEVEL             12         41 NONE
CUST_CREDIT_LIMIT              8          0 NONE
CUST_EMAIL                  1699        0 NONE
CUST_TOTAL                   1          0 NONE
CUST_TOTAL_ID                 1          0 FREQUENCY
CUST_SRC_ID                  0          55500 NONE
CUST_EFF_FROM                  1          0 NONE
CUST_EFF_TO                    0          55500 NONE
CUST_VALID                   2          0 NONE

24 rows selected.

```

With the histogram in place on the column group, the optimizer will now use the extended statistics and the cardinality estimates is now accurate.

```

SQL> SELECT count(*)
  2  FROM Customers
  3 WHERE CUST_STATE_PROVINCE = 'CA'
  4 AND COUNTRY_ID = 52790;
COUNT(*)
-----  

  5341  

SQL> select * from table(dbms_xplan.display_cursor());
PLAN_TABLE_OUTPUT
SQL_ID b8rcrw85nx32k, child number 0
SELECT count(*) FROM Customers WHERE CUST_STATE_PROVINCE = 'CA' AND
COUNTRY_ID = 52790
Plan hash value: 296924608

| Id | Operation          | Name      | Rows   | Bytes | Cost (%CPU)| Time     |
| 0 | SELECT STATEMENT   |           |        |       |    278 (100) |          |
| 1 |  SORT AGGREGATE    |           |    1    |    16  |            |          |
|* 2 |   TABLE ACCESS STORAGE FULL| CUSTOMERS | 3531   | 56496 |    278  (1)| 00:00:01 |


```

Predicate Information (identified by operation id):

```

2 - storage(("CUST_STATE_PROVINCE"='CA' AND "COUNTRY_ID"=52790))
  filter(("CUST_STATE_PROVINCE"='CA' AND "COUNTRY_ID"=52790))

```

Extended statistics are used even if we have them for only a subset of predicates in the statement. Lets say there is a column group created on (c1, c2) and we have a SQL statement with a where clause that contains c1 = 1 and c2 = 1 and c3 = 1. The optimizer will use the extended statistics on C1,C2 and multiply that by the selectivity of third

predicate. It will use all the available statistics on column group, including histograms. The optimizer will also use the extended statistics (in a limited way) if a subset of the column group is present in the query.
Join the discussion

Comments (16)

From <<https://blogs.oracle.com/optimizer/extended-statistics>>

```
exec DBMS_STATS.GATHER_TABLE_STATS('AAAMAINDB','list'); or DBMS_STATS.GATHER_TABLE_STATS(null,'list');
select DBMS_STATS.CREATE_EXTENDED_STATS('AAAMAINDB','list','(entity_dict_id,parent_object_id)') from dual; OR select DBMS_STATS.CREATE_EXTENDED_STATS(null,'list','(entity_dict_id,parent_object_id)') from dual;
```

Oracle - Audit Trails

Friday, May 20, 2022 10:33 PM

SQL> show parameter audit

NAME	TYPE	VALUE
audit_file_dest	string	/tap/oracle/admin/CLX/adump
audit_sys_operations	boolean	TRUE
audit_syslog_level	string	
audit_trail	string	DB
unified_audit_sga_queue_size	integer	1048576

AUDIT SELECT TABLE, INSERT TABLE, DELETE TABLE, EXECUTE PROCEDURE BY ACCESS WHENEVER NOT SUCCESSFUL;

From <https://docs.oracle.com/cd/E11882_01/server.112/e10575/tadpsg_auditing.htm#TDPSG50524>

SQL> audit all by sys by access;
SQL> audit all by aaa by access;

For auditing procedure:

```
SQL> audit execute procedure by aaa by access;
SQL> select * from dba_audit_trail where action_name !='DELETE';
=====
SQL> audit select, insert, delete on aaamaindb.lock_event_map;
SQL> audit select, insert, update, delete on aaamaindb.lock_event_map;
SQL> audit execute on aaamaindb.lock_event_map_by_map;
SQL> audit execute on aaamaindb.unlock_event_map_by_sid;
SQL> audit execute on aaamaindb.upd_lock_event_map_down;
=====
SQL> select
  os_username,
  username,
  obj_name,owner
from
  dba_audit_trail
where
  obj_name = 'TESTING_PROC_AUDIT';
no rows selected

--call the stored procedure and trigger the audit operation

SQL> select testing_proc_audit from dual;
```

TESTING_P

04-AUG-14

```
SQL> select
  os_username,
  username,
  obj_name,owner
from
  dba_audit_trail
where
  obj_name = 'TESTING_PROC_AUDIT';
```

From <http://www.dba-oracle.com/t_audit_stored_procedure_invocation.htm>

=====

set long 200000;
set pages 999;

```
SQL> select * from v$sqltext;
SQL> select sql_fulltext from v$sql;
SQL> select * from dba_source;
```

```
SQL> col SQL_TEXT format a10000
SQL> select SQL_TEXT from v$sqltext where SQL_ID='6hwjmjgrpsua';
```

From <<https://www.dbasupport.com/forums/showthread.php?59398-How-to-get-full-query-for-end-user-sessions>>

[oracle@myserver bin]\$ sqlplus "/as sysdba"

SQL*Plus: Release 12.2.0.1.0 Production on Sat May 21 16:48:12 2022

Copyright (c) 1982, 2016, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL> alter system set audit_trail=db, extended scope=spfile
SQL>/
System altered.

Restart the DB
SQL> select sqltext from sys.aud\$ where sqltext is not null;
"create table TEMPTSDB.C_USER_SQL_0000000029113
(
 user_id number(14,0) null
, ext_denomination_en nvarchar2(255) null
, ext_denomination_fr nvarchar2(255) null
, ext_denomination_de nvarchar2(255) null
, ext_sql_calc_d timestamp null
) tablespace AAATSLDB2_DATA_SEG1"
=====

1. Make sure if audit_trial=NONE is set OR else set it to AUDIT_TRAIL=NONE

From <<https://smarttechways.com/2019/09/02/disable-audit-trail-but-trace-still-generated-in-oracle/>>

Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production

SQL> alter system set audit_trail=NONE scope=spfile;
System altered.

SQL> alter system set audit_sys_operations=FALSE scope=spfile sid='*';
System altered.

SQL> alter system set audit_syslog_level='SYSLOG.WARNING' sid='*' scope=spfile;
System altered.

SQL> select name, value from v\$parameter where name like 'audit%';

NAME

VALUE

audit_sys_operations
TRUE

audit_file_dest
/tap/oracle/admin/CLX/adump

audit_syslog_level

NAME

VALUE

audit_trail
DB, EXTENDED
=====

SQL> --Sample User definition:
SQL> create user test01 identified by *****;

User created.

SQL> grant create session to test01;

Grant succeeded.

SQL>
SQL> --Audit setting:
SQL> create audit policy connection_policy actions logon,logoff WHEN 'SYS_CONTEXT("USERENV","SESSION_USER")="TEST01"' evaluate per session;

Audit policy created.

SQL> audit policy connection_policy;

Audit succeeded.

```
SQL>
SQL> --Try to logon and logoff:
SQL> connect test01
Connected.
SQL> disconnect
Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production
SQL>
SQL> --Confirm the audit information:
SQL> connect / as sysdba
Connected.
SQL> select to_char(event_timestamp, 'DD/MM/YYYY HH24:MI:SS.FF3'), action_name
  2  from unified_audit_trail where dbusername='TEST01' order by 1;
```

TO_CHAR(EVENT_TIMESTAMP

```
-----
ACTION_NAME
-----
19/02/2019 16:34:17.409
LOGON
```

19/02/2019 16:34:17.440

LOGOFF

From <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=81649389600531&parent=EXTERNAL_SEARCH&sourceld=HOWTO&id=2509211.1&_afrWindowMode=0&_adf.ctrl-state=r0iw3r0x2_4>

=====

Applying the policy ORA_SECURECONFIG to SYS:
SQL> audit policy ORA_SECURECONFIG by SYS;

From <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=81899784860573&id=2787945.1&displayIndex=2&_afrWindowMode=0&_adf.ctrl-state=r0iw3r0x2_73#SYMPTOM>

=====

```
CREATE or REPLACE TRIGGER HLA_CHNGE_PASSWD
  AFTER ALTER on database
  BEGIN
    IF ora_sysevent='ALTER' and ora_dict_obj_type = 'USER' and ora_des_encrypted_password is not null
    THEN
      RAISE_APPLICATION_ERROR(-20003, 'You are not allowed to alter password user.');
    END IF;
  END;
/
```

create user hla identified by hlahla;

alter user hla identified by hla1hla1;

alter user hla identified by hla1hla1

Error report -

ORA-04088: error during execution of trigger 'SYS.HLA_CHNGE_PASSWD'
ORA-00604: error occurred at recursive SQL level 1
ORA-20003: You are not allowed to alter password user.
ORA-06512: at line 4
04088. 00000 - "error during execution of trigger '%s.%s'"
*Cause: A runtime error occurred during execution of a trigger.
*Action: Check the triggers which were involved in the operation.

SSH Connection using ppk in putty

Saturday, June 5, 2021 4:37 PM

Connect to Server with Private Key

1. Enter the remote server Host Name or IP address under **Session** .
2. Navigate to **Connection > SSH > Auth** .
3. Click Browse... ...
4. Locate the id_rsa. ...
5. Finally, click Open again to log into the remote server **with key** pair authentication.

From <[TAP Global Note Page 382](https://www.google.com/search?q=putty+ssh+connection+using+private+key&safe=active&rlz=1C1CHBD_enIN934IN934&ei=wVK7YJOjPNqJ4-EPrcygAc&oq=putty+ssh+connection+usi&gs_lcp=Cgdnd3Mt2I6EAMYAJGCAAQDRAeMgYIABAWE4yBggAE BYQHjIGCAAQFhAeMgYIABAWE4yBggAE BYQHjOHCAAQRxCwAzoECCEQFToICAAQ6glQjwE6BQgAEJECOgoILhDHARCjAhBDoggILhCxAxCDAToICAAQsQM QgwE6BQgAELEDOgQIA BBD O gUl hCx Azo HCAAQsQM QzoCCABQrPghWK--ImDT1SJ oAnACeAWAAbIEiAGjN5IBDDAuMTcuOC4zLjEuMzgBAKABAaoBB2d3cy13aXqwAQrlAQjAAQE&sclient=gws-wiz></p></div><div data-bbox=)

SysOp API

24 May 2024 17:11

1. Navigate to the GUI and select ‘Administration’ | ‘Security’ | ‘User’
2. Search for “advisor” user and click on “Modify”
3. Select “Password” button and update the “Validity Date” and “Expiration Date” fields to reflect future date (e.g 01/01/2025 00:00:00)
4. Save changes and re-launch the SysOp-API and validate API call

NOTE: You can create a startup shell script with below and startup in nohup and in background:

```
#!/bin/sh
java \
-Dspring.profiles.active=sysop,custom \
-Daaa.home=$AAAHOME \
-Dcommand.repoPath=$AAAHOME/apisrv/repo \
-jar api-server.jar
```

From <<http://rd.temenosgroup.com/browse/PMSTA-47879>>

Latest BitBucket Checkout (without multi-scm)

Tuesday, June 8, 2021 10:44 PM

1 . A fresh checkout of the TWS/TA develop branch from BB needs to be done since multi-scm has been made obsolete post migration .

Checkout Instruction for developer : <https://confluence.temenos.com/display/TOOLS/TAP+core+git+-+clone+on+Windows%2C+Linux>

2. Cloning Sub modules to the workspace

- The develop branch under <https://lausvn.temenosgroup.com/svn-devel/products/TA/branches> will no longer be in use from the current version **27.1.0** , hence any further updates that are required in clone and gateway needs to be committed in the BB under the project <https://bitbucket.temenos.com/projects/TWSDT>
- ta_loader which was available under https://lausvn.temenosgroup.com/svn-devel/internal/TAP-Core/Tools/ta_loader/ has been migrated to BB under the Project <https://bitbucket.temenos.com/projects/TWSI>
- Checkout of submodule to local : Refer <https://confluence.temenos.com/display/TOOLS/TAP+core+git+-+clone+on+Windows%2C+Linux>

3. Cloning Third-party to the workspace

- The Third-party project <https://lausvn.temenosgroup.com/svn-devel/thirdparty/> will no longer be in use from the current version **27.1.0** , hence any further updates in third parties needs to committed in BB project <https://bitbucket.temenos.com/projects/TWSTP> .
- Here all third parties are aligned as separate repositories with the different versions created as branches respectively .
- Checkout of third party to local : Refer <https://confluence.temenos.com/display/TOOLS/TAP+core+git+-+clone+on+Windows%2C+Linux>

For the automated checkout with one script, download the script from the below jira:

<http://rd.temenosgroup.com/browse/CMT-14039>

If windows does not remember the password, use the below step.

<https://snede.net/git-does-not-remember-username-password/>

Constraint queries in oracle

Wednesday, November 3, 2021 11:45 AM

Display Constraint Info

```
set linesize 180
set verify off
accept constraintName prompt "Constraint Name: "
SELECT constraint_name, constraint_type, r_constraint_name, table_name,
       search_condition
  FROM all_constraints
 WHERE constraint_name = '&constraintName';
```

From <<https://www.infoworld.com/article/2074584/quickly-viewing-oracle-database-constraints.html>>

Display Constraints on Table

```
set linesize 180
set verify off
accept tableName prompt "Table Name: "
SELECT constraint_name, constraint_type, r_constraint_name, table_name,
       search_condition
  FROM all_constraints
 WHERE table_name = '&tableName';
```

From <<https://www.infoworld.com/article/2074584/quickly-viewing-oracle-database-constraints.html>>

Display Constraints on table columns

```
set linesize 180
set verify off
accept tableName prompt "Table Name: "
SELECT c.constraint_name, c.constraint_type, c.r_constraint_name,
       c.table_name, cc.column_name, cc.position, c.search_condition
  FROM all_constraints c, all_cons_columns cc
 WHERE c.table_name = '&tableName'
   AND c.constraint_name = cc.constraint_name;
```

From <<https://www.infoworld.com/article/2074584/quickly-viewing-oracle-database-constraints.html>>

Display Foreign Key Constraints

```
set linesize 180
set verify off
accept tableName prompt "Table Name: "
SELECT cf.constraint_name "FOREIGN KEY",
       cp.constraint_name "DEPENDS ON",
       cp.table_name, ccp.column_name, ccp.position
  FROM all_constraints cp, all_cons_columns ccp, all_constraints cf
 WHERE cp.table_name = '&tableName'
   AND cp.constraint_name = ccp.constraint_name
   AND cf.r_constraint_name = cp.constraint_name
   AND cf.r_constraint_name = ccp.constraint_name;
```

From <<https://www.infoworld.com/article/2074584/quickly-viewing-oracle-database-constraints.html>>

```
SELECT constraint_name, constraint_type, r_constraint_name, table_name, search_condition FROM all_constraints WHERE constraint_name = '&constraintName';
SELECT constraint_name, constraint_type, r_constraint_name, table_name, search_condition FROM all_constraints WHERE r_constraint_name = 'TYPE_PK';
```

```
select * from all_dependencies where referenced_type='TABLE' and referenced_name='TYPE';
select * from dba_constraints where constraint_type='F';
select * from all_cons_columns where owner='AAAMAINDB' and table_name='TYPE';
```

Automator Execution Steps

Wednesday, June 9, 2021 11:37 PM

```
/oams/CIP_LX_ORA_JB1/test_cip/all_results/PerformanceAnalysis/SLN_APB_BENCHMARK/step_10/step_10_12_exec_12_pa_analysis.aaa.rf1 - Financial function computed.
/oams/CIP_LX_ORA_JB1/test_cip/AUTOMATOR/results/PerformanceAnalysis/SLN_APB_BENCHMARK/step_10/step_10_12_exec_12_pa_analysis.aaa.rf1 -----Expected result checked out from svn
/oams/CIP_LX_ORA_JB1/test_cip/AUTOMATOR/tests/PerformanceAnalysis/SLN_APB_BENCHMARK/step_10/ --- Contains all the financial function execution scripts

Content of /oams/CIP_LX_ORA_JB1/aaahome/tmp/CIP/FDV_ORDER_LIST_09/AUTOMATOR.lf
ENV_1=AUTOMATOR
TA_AUTOMATOR_STATUS_SET=OAMS_90
AAAHOME=/oams/CIP_LX_ORA_JB1/aaahome
TA_APPL_OWNER=aaa
TA_APPL_OWNER_PASSWORD=aaaaaa
AAATASCLOGIN=tasc
AAATASCLOGIN_PASSWORD=tasctasc
WIN_TEMP_PATH=/oams/CIP_LX_ORA_JB1/test_cip/WIN_TEMP
MAIN_FIN_SERV=CIP_LX_ORA_JB1_S1

USE_SAVED_RESULTS=0

/oams/CIP_LX_ORA_JB1/aaahome/tmp/CIP/FDV_ORDER_LIST_09/OAMS_90_env_1.lf
export ENV_1=AUTOMATOR
export TA_AUTOMATOR_STATUS_SET=OAMS_90
export AAAHOME=/oams/CIP_LX_ORA_JB1/aaahome
export TA_APPL_OWNER=aaa
export TA_APPL_OWNER_PASSWORD=aaaaaa
export AAATASCLOGIN=tasc
export AAATASCLOGIN_PASSWORD=tasctasc
export WIN_TEMP_PATH=/oams/CIP_LX_ORA_JB1/test_cip/WIN_TEMP
export MAIN_FIN_SERV=CIP_LX_ORA_JB1_S1
export USE_SAVED_RESULTS=0
export CANCELLED=0
export EXPIRED=5
export VALIDATION_REJECTED=10
export ORDER_REJECTED=15
export SIMULATION=20
export TO_VALIDATE=25
export TO_GROUP=30
export ORDER_TO_SEND=35
export ORDER_SENT=40
export ORDER_RECEIVED=45
export ORDER_CANCELLATION_TO_SEND=50
export ORDER_CANCELLATION_SENT=55
export ORDER_CANCELLATION_RECEIVED=60
export ORDER_CANCELLATION_PLACED=65
export ORDER_PLACED=70
export EXECUTION_PARTIAL=75
export EXECUTED=80
export EXTERNAL_POSITION=85
export TRANSACTION_ACCOUNTED=90
export TRANSACTION_POST_ACCOUNTED=95
export TRANSACTION_MAX_STATUS=95

lax.sh
/oams/CIP_LX_ORA_JB1/aaahome/lax>cat lax.query
#USE AAAMAINDB
go
set dateformat dmy
go
exec_fin_analysis_all_domain
@report_server = 'AAASERVHLAU',
@function = 'ord_list',
@ofORMAT = 'JDE_PM_ORD_LS_INPUT',
@dim_port = 'portfolio',
@port_object = 'HLA-PTF_01', /*NULL*/
@port_list_definition_t = NULL,
@dim_instr = NULL,
@instr_object = NULL, /*NULL*/
@instr_list_definition_t = NULL,
@currency = 'EUR',
@def_curr_f = 0, /*Forced*/
@language = 'en',
@def_lang_f = 0, /*Forced*/
@calc_from_d = '01/05/2000',
@calc_till_d = '05/09/2021',
@calc_ref_d = '01/05/2009',
@min_status_e = 0,
@max_status_e = $TO_GROUP,
@pps_load_e = 0, /*No PPS*/
@port_pos_type = NULL,
@pps_type_f = 1, /*One*/
@pps_cons_pf_f = 1, /*One*/
@pps_currency_f = 1, /*One*/
@port_cons_rule_e = 0, /*Detailed*/
@fusion_rule_e = 0, /*None*/
@fusion_date_rule_e = 0, /*None*/
@pos_logical_e = 0, /*Default*/
@zero_qty_f = 0, /*Excl. Zero Pos.*/
@status_fus_f = 0, /*Keep Status*/
@close_pos_f = 0, /*Keep Positions*/
@debt_f = 0, /*Exclude Debts*/
@load_hierarchy_f = 0, /*No*/
```

```

@load_global_order = 3, /*Parent & Children*/
@load_pos_f = 0, /*Incl. Pos*/
@fus_sub_nat_f = 0, /*Keep Sub-Pos*/
@load_non_discret_f = 0, /*No Non-Discretionary*/
@disp_result_f = 0, /*Yes*/
@extop_search_c = NULL
go
=====
#USE AAAMAINDB
go
set dateformat dmy
go
exec_fin_analysis_all_domain
@report_server='CIP_LX_ORA_JB1_S1',
@function = 'ord_list',
@format = 'JDE_PM_ORD_LS_INPUT',
@dim_port = 'quick_search',
@port_object = NULL, /*NULL*/
@port_list_definition_t = '(code LIKE "T_AI*")',
@dim_instr = 'quick_search',
@instr_object = NULL, /*NULL*/
@instr_list_definition_t = '(nature_e IN (2, 7)) AND (code LIKE "T_AI_*")',
@currency = 'EUR',
@def_curr_f = 0, /*Forced*/
@language = 'en',
@def_lang_f = 0, /*Forced*/
@calc_from_d = '01/05/2000',
@calc_till_d = '31/05/2009',
@calc_ref_d = '01/05/2009',
@min_status_e = 'SCANCELLED',
@max_status_e = '$TRANSACTION_ACCOUNTED',
@pps_load_e = 0, /*No PPS*/
@port_pos_type = NULL,
@pps_type_f = 1, /*One*/
@pps_cons_pf_f = 1, /*One*/
@pps_currency_f = 1, /*One*/
@port_cons_rule_e = 0, /*Detailed*/
@fusion_rule_e = 0, /*<None>*/
@fusion_date_rule_e = 0, /*<None>*/
@pos_logical_e = 0, /*<Default>*/
@zero_qty_f = 0, /*Excl. Zero Pos.*/
@status_fus_f = 0, /*Keep Status*/
@close_pos_f = 0, /*Keep Positions*/
@debt_f = 0, /*Exclude Debts*/
@load_hierarchy_f = 0, /*No*/
@load_global_order = 3, /*Parent & Children*/
@load_pos_f = 0, /*Incl. Pos*/
@fus_sub_nat_f = 0, /*Keep Sub-Pos*/
@load_non_discret_f = 0, /*No Non-Discretionary*/
@disp_result_f = 0, /*Yes*/
@extop_search_c = '(op_currency_id.code = "USD")'
go

```

```
/oams/CIP_LX_ORA_JB1/aaahome/aaa sql -Uaaa -Paaaaaaaa -w200000 -s~ <lax.sh  
-s - Separator ~
```

From <https://laulxcm.temenosgroup.com/job/env.CIP_AX_SYB_ISO.ta_automator/760/consoleFull>

```
11:33:51 # AUTOMATOR
11:33:51 #####
11:33:51 Processing file (EnvNum:1) ./step_directories.txt
11:33:51 Check existence of directory (EnvNum:1) env_1/step_10
11:33:51 Process file (EnvNum:1) Check_Strat_step_10_Test_To_Run.txt
11:33:51 Process test case (EnvNum:1) step_10/SI_TC06_Ex_020_check_strat.aaa
11:33:51 -----
11:33:51 # FUNCTION EXEC_FIN DUAL SSH ON ENV 1
11:33:51 -----
11:33:51 TC_ID=Check_Strat
```

```

11:33:51 CUR_STEP=step_10
11:33:51 AAHOME=/oams/CIP_AX_SYB_ISO/aaahome
11:33:51 CUR_FILE_NAME=SI_Tc06_Ex_020_check_strat.aaa
11:33:51 ROOT_FILE_NAME=/oams/CIP_AX_SYB_ISO/aaahome/tmp/CIP/Check_Strat/env_1/step_10/step_10/SI_Tc06_Ex_020_check_strat.aaa
11:33:51 FORMAT_CODE=SOW_PM_CP_COMP
11:33:51 SQLCMD
11:33:51 /oams/CIP_AX_SYB_ISO/aaahome/aaa sql -Umg_aaa -Pmig_aaamig_aaa -w200000 -s~ </oams/CIP_AX_SYB_ISO/aaahome/tmp/CIP/Check_Strat/env_1/step_10/SI_Tc06_Ex_020_check_strat.aaa
11:33:51 BEGIN (07:49:43)
11:33:51
11:33:51 Msg ERROR: Default      Keyword #USE: Invalid argument
11:33:51 END (07:49:46)
11:33:51 AAA_RET_CODE=0
11:33:51 TEST_DURATION=3
11:33:51
11:33:51 IS_EXPECTED_EMPTY=FALSE
11:33:51 Adding Format Element Header
11:33:51 Adding Data Type Header
11:33:51 Create RF1 File
11:33:51
11:33:51 # check_fin_server_pid - env_1/step_10/SI_Tc06_Ex_020_check_strat.aaa/step_10
11:33:51 #####MAIN FIN SERV=CIP_AX_SYB_ISO_DISP#####
11:33:51 Debug - check_fin_server_pid - MAIN_FIN_SERV=CIP_AX_SYB_ISO_DISP
11:33:51 Debug - check_fin_server_pid - NB_PROC=1
11:33:51
11:33:51 -----
11:33:51 Process test case (EnvNum:1) step_10/SI_Tc07_Ex_020_check_strat.aaa
11:33:51
11:33:51 # FUNCTION EXEC_FIN DUAL SSH ON ENV 1
11:33:51 -----
11:33:51 TC_ID=Check_Strat
11:33:51 CUR_STEP=step_10
11:33:51 AAHOME=/oams/CIP_AX_SYB_ISO/aaahome
11:33:51 CUR_FILE_NAME=SI_Tc07_Ex_020_check_strat.aaa
11:33:51 ROOT_FILE_NAME=/oams/CIP_AX_SYB_ISO/aaahome/tmp/CIP/Check_Strat/env_1/step_10/step_10/SI_Tc07_Ex_020_check_strat.aaa
11:33:51 FORMAT_CODE=SOW_PM_CP_COMP
11:33:51 SQLCMD
11:33:51 /oams/CIP_AX_SYB_ISO/aaahome/aaa sql -Umg_aaa -Pmig_aaamig_aaa -w200000 -s~ </oams/CIP_AX_SYB_ISO/aaahome/tmp/CIP/Check_Strat/env_1/step_10/SI_Tc07_Ex_020_check_strat.aaa
11:33:51 BEGIN (07:49:48)
11:33:51
11:33:51 Msg ERROR: Default      Keyword #USE: Invalid argument
11:33:51 END (07:49:49)
11:33:51 AAA_RET_CODE=0
11:33:51 TEST_DURATION=1
11:33:51
11:33:51 IS_EXPECTED_EMPTY=FALSE
11:33:51 Adding Format Element Header
11:33:51 Adding Data Type Header
11:33:51 Create RF1 File

```

From <https://auukcmtemenosgroup.com/job/env.CIP_AX_SYB_ISO.ta_automator/760/consoleFull>

=====

Creation of the import file using xls:

Go through the document C:_ftgen\TA\AUTOMATION\AUTOMATOR\DOC\05_How_To_Create_Import_File.doc

Order execution Steps-global_execution_fee, execution_qty

09 December 2022 11:58

1. Create order in placed status
2. Enter execution steps
3. Import the accounted operations as below:

```
/tap/CIP_LX_VM/aaahome->cat lax.imp
SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET THOUSAND ,
SET BUSINESS_ENTITY SGP
CMD INSUPD ext_operation
ATT portfolio instr code quantity_n execut_set_criteria ext_order status_e nature_e order_nat_e
DAT HLA-Mod-Cur01;1997KPN;HLA001;20;1200100005-01;1200100005;KEEP_DV;1;0

CMD INSUPD buy_operation
ATT portfolio instr code quantity_n order_code status_e nature_e order_nat_e
DAT HLA-Mod-Cur01;1997KPN;1200100005;20;HLA001;KEEP_DV;1;0
```

4. Check the link between global_execution_fee, execution_qty, ext_order and operation.

Vim

Friday, June 11, 2021 9:33 AM

To build own vim status lines

<https://shapeshed.com/vim-statuslines/>

Lab Performance Profiling & Tools - sybase

Monday, May 9, 2022 10:01 AM

[LAB Activities - R&D Software Architecture and Research - Confluence PROD \(temenos.com\)](#)

Performances analysis

Sybase investigation

This is the list of T-SQL commands a customer should execute in order to help the validation of his configuration.

to be run as SA and defining a very large output : -w 10000 (when using isql)

```
select getDate()
go
select @@version
go
sp_version
go
select @@maxpagesize
go
sp_helpdevice
go
sp_helpdb
go
sp_configure
go
sp_cacheconfig
go
dbcc traceon (3604)
go
dbcc traceflags
go
dbcc memusage
go
sp_helpcache
go
use tempdb
go
sp_helpsegment 'default'
go
sp_helpsegment 'logsegment'
go
dbcc orphantables
go
sp_monitorconfig 'all'
go
sp_configure display_nondefault_settings
go
show switch
go
sp_options 'show'
go
sp_logiosize 'all'
go
sp_helpthread --15.7
go
sp_who
go
sp_help_resource_limit
go
-- Check for wrongly configured tasclogin users
declare curs cursor for
select name from sysusers u
where u.uid = (select uid from sysusers g where g.uid = u.uid and name = 'tasc_tech')
and u.uid != g.uid
go
declare @username sysname
declare @sql varchar(255)
open curs
fetch curs into @username
while (@@sqlstatus != 2)
begin
    set @sql='sp_displayroles ' + @username
    print @sql
    execute(@sql)
    fetch curs into @username
end
close curs
deallocate curs
go
-- check the statistics of all non system databases
declare curs2 cursor for
select dbid,name from master..sysdatabases
where sid != 1 and dbid > 2 and status3 & 256 != 256
go
declare @dbname sysname
declare @dbid smallint
declare @sql varchar(2000)
open curs2
fetch curs2 into @dbid,@dbname
while (@@sqlstatus != 2)
begin
set @sql='
select
DataBaseName = "' +@dbname+",
TableName=object_name(ss.id,@dbid),
-- need to use strobjbin() due to byte swapping on big endian
ColumnName=col_name(ss.id,hexToInt(bintostr(ss.colidarray)),@dbid),
Row_Count=st.rowcnt,
RequestedSteps=convert(int,ss.c5),
ActualSteps=convert(int,ss.c4),
ApproxDistincts=convert(int,round(1/convert(double precision,ss.c15),0)),
DistinctsPerStep=round((convert(int,round(1/convert(double precision,ss.c15),0)))/convert(float,convert(int,ss.c4)),0),
Uniqueness=str(1.0/(convert(double precision,ss.c15)*st.rowcnt),12,10),
RangeDensity=str(round((convert(double precision,ss.c2),10),12,10),
TotalDensity=str(round((convert(double precision,ss.c3),10),12,10),
UpdStatsDate=convert(varchar(20),moddate,100),
DaysAgo=datediff(dd,moddate,getdate())),
from ' + @dbname+'..sysstatistics ss inner join ' + @dbname+'..systabstats st on ss.id=st.id
where object_name(ss.id,@dbid) not like '%[_]20%'
```

```

and st.rowcnt > 1
and ss.id > 100 and st.id > 100
and ss.formatid=100
and st.indid in (0,1)
and ss.c4 is not null
order by TableName, ColumnName '
exec (@sql)
fetch curs2 into @dbid,@dbname
end
close curs2
deallocate curs2
go

-- check the size of all tables
-- this may take time

declare curs1 cursor for
select name from master..sysdatabases
where sid != 1 and dbid > 2
and status3 & 256 != 256
go
declare @dbname sysname
declare @sql varchar(1000)
open curs1
fetch curs1 into @dbname
while (@@sqlstatus != 2)
begin
  set @sql="select name as tb_name_in_='"+@dbname+"', row_count(db_id('"+@dbname+')) as nb_rows from "+@dbname+" ..sysobjects where type='U' and name not like '%[_]20%' order by name"
  exec (@sql)
  fetch curs1 into @dbname
end
close curs1
deallocate curs1
go

Since ASE 15.7 as new utility called sybdiag collect most of the value above plus operating system value bounded in a zip containing HTML (IE compatible) pages
e.g.
$SYBASE/$SYBASE_ASE/bin/sybdiag -Usa -Psybase -O/var/tmp

The T-SQL command to diagnose a statement:
isql -U<THE_USER> -P<THE_PASSWORD> -S $DSQUERY -D <THE_AAAMAINDB> -W 2000 -E -I sqlfile.sql -O sqlfile.out

where the sqlfile.sql looks like:
select user_id(),user_name(), user_id(),user_name(), getdate()
go
set statement_cache off -- To avoid any cache effect (comment it if the issue is with the cache)
-- set dateformat mdy -- if you use a particular date format
go
-- If you have initialisation, creation of temporary table or variable declaration put in the line below
-- << PUT the initialisation code here >>
go
--set switch on 3604

set statistics time, io, plancost, resource on
--set option show_missing_stats on -- need the set tracing role see below
--set option show_lro_costing on
go
--
-- set option show long -- Contains all info but the output from this can be very large
-- set option show on
go
set showplan on
-- do not returned sensitive data
set nodata on
go
-- Put the statement to diagnose below

<< THE SQL HERE

go
set showplan off
go
--set option show off
--set switch off 3604
set statistics time, io, plancost, resource off
--set statement_cache off
set nodata off
go
-- get the monitoring values for the user if has the mon_role
-- e.g "grant role mon_role to <THE_USER>"'
select * from master..monProcessActivity where SPID=@spid
select * from master..monProcessWaits where SPID=@spid
go
-- display the option of the current process
select * from master..sysoptions where spid=@spid
go

To create a role for debugging without setting the sa role and grant it to <THE_USER>

These statements must be run by sa
USE master
go
create role debugging_role
go
grant set tracing to debugging_role
go
grant role debugging_role to <THE_USER>
go
exec sp_modifylogin '<THE_USER>', 'add default role', 'debugging_role'
go

obtain the SQL and plan of an running process <PID> (e.g. use sp_who or sp_transactions to determine the <PID>)
dbcc traceon(3604)
go
dbcc sqltext (<PID>)
go
sp_showplan <PID>
go

```

LAB Environments management

Create a temporary database for sa (tempdb4sa)

This can be useful if the tempdb full and no command can be executed anymore.

```

# isql -Usa -Psybase
1> sp_who
2> go
The transaction log in database tempdb is almost full. Your transaction is
being suspended until space is made available in the log.

[CanCan]
Rerun ISQL with the command:
shutdown with nowait

Remember some command using sa may need more space
-- Create a tempdbsa (tempdb4sa, tempdbforsa)
USE master
go
disk resize name='tempdbdev',size='100M'
go
CREATE temporary DATABASE tempdbsa ON tempdbdev = '80M' log on tempdbdev = '20M' with override
go
use tempdbsa
go
exec sp_chandedbowner 'sa', true
go
exec master.dbo.sp_dboption tempdbsa, 'select into/bulkcopy', true
go
exec master.dbo.sp_dboption tempdbsa, 'trunc log on chkpt', true
go
exec master.dbo.sp_dboption tempdbsa, 'allow wide dol rows', true
go
checkpoint
go
exec master..sp_tempdb bind, 'lg', 'sa', 'DB', 'tempdbsa'
go

Moving tempdb off the master device
When you have increased tempdb on separate devices you can configure tempdb so that the master device is unused. This increases the performance of tempdb even further. There are various techniques for this, all with their pros and cons but I recommend the following.
Modify sysusages so that segmap will be set to 0 for the master device. In other words, change the segments of tempdb so that the master device is unused. This can be done with the following statements:
sp_configure "allow updates to system tables",1
go
update master..sysusages
  set segmap = 0
  where dbid = 2
  and lstart = 0
go
sp_configure "allow updates to system tables",0
go
shutdown -- reboot now!
go
or by doing
exec sp_dropsegment 'default', tempdb, master
exec sp_dropsegment 'logsegment', tempdb, master
exec sp_dropsegment 'system', tempdb, master
cf: http://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.infocenter.dc00841.1502/html/phys\_tune/X19466.htm
When you use this configuration you should know the recovery procedure just in case one of the devices of tempdb gets corrupted or lost. Start your ASE in single user mode by adding the -m switch to the dataserver options. Then submit the following statements:
update master..sysusages
  set segmap = 7
  where dbid = 2
  and lstart = 0
go
delete master..sysusages
  where dbid = 2
  and lstart > 0
go
shutdown -- reboot now!
go
Remove the -m switch from the dataserver options and restart ASE. Your tempdb is now available with the default allocation on the masterdevice.
Thanks to http://www.petersap.nl/SybaseWiki/index.php?title=Tempdb\_space\_management

Setup large I/O size for log
Create first a dedicated cache having the right pool size
For this example (for temptsldb), let's call it cachelogotemptsldb
Then:
USE master
go
exec sp_dboption 'temptsldb', 'single user', true
go
USE temptsldb
go
checkpoint
go
exec sp_bindcache 'cachelogotemptsldb', 'temptsldb', 'syslogs'
go
USE master
go
exec sp_dboption 'temptsldb', 'single user', false
go
USE temptsldb
go
checkpoint
go
exec sp_logiosize '128'

Dump of a DB
• Keep track of sybase version as well as page size
  select @@maxpagesize
  select @@version
• Extract the DB structure (use ddl gen from Sybase central or using command line)
  devices, segments and database (for aaamaidb, aaalogindb, aaarepdb, permstldb, (temptsldb))
  Warning: explicitly do a ddl gen for each segment. You can not trust the segment creation commands generated at database level.
• bcp out of syslogins and sysservers
Example:
bcp master..syslogins out master_syslogins.bcp -Usa -Psybase -SLAB1503 -c -r\n -t-
bcp master..sysservers out master_sysservers.bcp -Usa -Psybase -SLAB1503 -c -r\n -t-
• Dump of all the databases
Example:
-----  

-- Dump l_baer_aaarepdb  

-----
```

```

EXEC sp_dboption 'l_baer_aaarepdbs', 'single user', 'TRUE'
go
CHECKPOINT l_baer_aaarepdbs
go
exec sp_flushstats
go
CHECKPOINT l_baer_aaarepdbs
go
dump tran l_baer_aaarepdbs with truncate_only
go
dump database l_baer_aaarepdbs to '/nas/all.dumps/laur57b/Lab/BAER/l_baer_aaarepdbs.dmp' with compression = 1
go
EXEC sp_dboption 'l_baer_aaarepdbs', 'single user', 'FALSE'
go
CHECKPOINT l_baer_aaarepdbs
go
-----
-- Dump l_baer_aaalogindb
EXEC sp_dboption 'l_baer_aaalogindb', 'single user', 'TRUE'
go
CHECKPOINT l_baer_aaalogindb
go
exec sp_flushstats
go
CHECKPOINT l_baer_aaalogindb
go
dump tran l_baer_aaalogindb with truncate_only
go
dump database l_baer_aaalogindb to '/nas/all.dumps/laur57b/Lab/BAER/l_baer_aaalogindb.dmp' with compression = 1
go
EXEC sp_dboption 'l_baer_aaalogindb', 'single user', 'FALSE'
go
CHECKPOINT l_baer_aaalogindb
go
-----
-- Dump l_baer_aaamaindb
EXEC sp_dboption 'l_baer_aaamaindb', 'single user', 'TRUE'
go
CHECKPOINT l_baer_aaamaindb
go
exec sp_flushstats
go
CHECKPOINT l_baer_aaamaindb
go
dump tran l_baer_aaamaindb with truncate_only
go
sp_dboption l_baer_aaamaindb, 'read only', true
go
CHECKPOINT l_baer_aaamaindb
go
dump database l_baer_aaamaindb to '/nas/all.dumps/laur57b/Lab/BAER/l_baer_aaamaindb.1.dmp'
stripe on '/nas/all.dumps/laur57b/Lab/BAER/l_baer_aaamaindb.2.dmp'
stripe on '/nas/all.dumps/laur57b/Lab/BAER/l_baer_aaamaindb.3.dmp'
stripe on '/nas/all.dumps/laur57b/Lab/BAER/l_baer_aaamaindb.4.dmp'
with compression = 1
go
sp_dboption l_baer_aaamaindb, 'read only', false
go
CHECKPOINT l_baer_aaamaindb
go
EXEC sp_dboption 'l_baer_aaamaindb', 'single user', 'FALSE'
go
CHECKPOINT l_baer_aaamaindb
go
If Sybase says wrongly that a DB is full
Example for tempdb (adapt for the right DB if needed)
sp_configure "allow updates to system tables",1
go
update sysusages set segmap=7 where dbid=2 and istart=0
go
shutdown
go
Then, restart and revert the property
sp_configure "allow updates to system tables",0

Override default DB size for automated deployment
In order to allow using the automated deployment tools for TAP Core (install from scratch) for large Lab's environment we must be able to define the size of the DB to create in the Jenkins configuration file.
Example:
<property name="db_size_aaamaindb" value = "4000"/>
<property name="db_log_size_aaamaindb" value = "1700"/>

<property name="db_size_permtslbd" value = "600"/>
<property name="db_log_size_permtslbd" value = "602"/>

<property name="db_size_tempstldb" value = "400"/>
<property name="db_log_size_tempstldb" value = "402"/>

<property name="device_size_aaamaindb_data1" value = "4124"/>
<property name="device_size_aaamaindb_idx1" value = "3000"/>
<property name="device_size_aaamaindb_log1" value = "1772"/>

<property name="device_size_permtslbd_data1" value = "600"/>
<property name="device_size_permtslbd_idx1" value = "601"/>
<property name="device_size_permtslbd_log1" value = "602"/>

<property name="device_size_tempstldb_data1" value = "400"/>
<property name="device_size_tempstldb_idx1" value = "401"/>
<property name="device_size_tempstldb_log1" value = "402"/>

Warning: As soon as you defines db_size_aaamaindb property you MUST set a value for all other size properties.
This feature is still under development please contact the lab if you encounter issues.
```

Automatically defines many fin servers

By adding the following property in the Jenkins configuration file, we are able to automatically define many financial servers:

```
<property name="hb_fin_servers" value = "4"/>
```

The naming convention is upper(env_name)_Sn with n being 1,2,3,4, ...

The port number is automatically incremented 1 by 1 based on the port of the default financial server.

The roles of the additional servers are: "Fin", "Fus", "Rep"

Warning: For time being, the additional financial servers must be defined in sql.ini or interfaces file prior to the launch of the installation.

4 Comments

[Francois Mercier](#)

Concerning the check of statistics:

The key is to look for any column with a high "[ActualSteps](#)" – especially higher than 1,000. This can happen if the [RequestedSteps](#) is higher than 50 since the default 'histogram tuning factor' server configuration is 20. The result is that the actual histogram steps can be 20 times higher than requested – although unlikely. More likely, it will be 2-5 times larger. If such a column is found, the best thing to do is to first delete the statistics (using 'DELETE STATISTICS') and then re-run 'UPDATE INDEX STATISTICS' but using a smaller step count in the 'using ### values' clause.

Check also for old statistics with a high value in [DaysAgo](#)

* [Feb 29, 2016](#)

Francois Mercier

Display the available optimizer level of a specific instance of ASE

```
select @version  
sp_configure 'optimizer level'  
select * from master..spt_values where name like "ase%"
```

• [Jan 11, 2017](#)

[Didier Debbaut](#)

Linux

To generate the output of the pstack command to a file appended with the current timestamp:

```
pstack <plD>>pstack.txt.$(date +%F %T)
```

It will generate this output:

```
pstack.txt.2020-04-09 16:05:17
```

Other date formats can done like:

```
pstack <plD>>pstack.txt.$(date +%Y%m%d-%H%M%S)
```

Output: pstack.txt.20200409-161247

IBM AIX

```
procstack <plD>>pstack.txt.$(date +%Y%m%d-%H%M%S')
```

• [Apr 09, 2020](#)

[Didier Debbaut](#)

Example of init/sel stored proc called individually via SQL:

```
create table #dom_oper(..)  
set statistics time, io, plancost, resource on  
set showplan on  
set statement_cache off  
select set_appcontext('TASC_CONTEXT','data_profile_id',2)  
exec init_sel...  
select * from #dom_port  
select * from #dom_strat  
+ ask SQL source code of the init/sel storec proc to compare with the queryplan
```

From <<https://confluence.temenos.com/display/ARCH/LAB+Activities#LABActivitiesPerformanceAnalysis>>

=====

Oracle Profiling

[Oracle profiling - R&D Software Architecture and Research - Confluence PROD \(temenos.com\)](#)

[LAB Activities - R&D Software Architecture and Research - Confluence PROD \(temenos.com\)](#)

[Dashboard - Confluence PROD \(temenos.com\)](#)

TSL Table Details

Wednesday, June 23, 2021 5:23 PM

Select * from aaamaindb.tasc_prec_job; Extended attribute Jobs

Select * from aaamaindb.tasc_job; Details of the job

select * from aaamaindb.tasc_prec_execution; - Mapping between the ocs id to physical job_id mapping.

select * from aaamaindb.tasc_job_table; Mapping between job_id, formats, tables

select * from tsl_prec_job_element; - All the screen used for the financial function

select * from tsl_table_cache; -All the sql queries from the format

Need to be cleaned up before running the tsl prec:

Select * from aaamaindb.tsl_prec_job

Select * from aaamaindb.tsl_prec_job_element

Select * from aaamaindb.tsl_prec_job_element_compo

Select * from aaamaindb.tsl_prec_cache

aaamaindb.tasc_prec_modif_stat

aaamaindb.tasc_prec_param

aaamaindb.tasc_validity

Job level Tables (permstldb)

Permsldb.jobl_event

Permsldb.jobl_job_instance

Permsldb.jobl_job_chunk

Permsldb.jobl_job_instance_params

Permsldb.jobl_step

Permsldb.jobl_id

off_monitoring

tasc_invalidation

tasc_global_recomp_obj

tasc_entity_recomp_obj

tasc_search_recomp_obj

tsl_table_cache

tasc_irr_recomp_obj

Linking Job instance to table:

```
*** COMMAND EXECUTION STARTED : [submit-bpi-job -D entity=instrument -D entityDimE=2 -D entityDimCode=PCK_DS_ALL_INSTR -t 7200 -w tsl-precomp-entity-job.xml]
```

Waiting until completion of job id 2095 (1 dot per minute)

```
Id: 2095
Status: failed
Job summary: Precomp Entity Job on instrument entity with code PCK_DS_ALL_INSTR and dimension LIST
Job type: tsl-precomp-entity
Owner: aaa:manager/advisor
Server: TAP_UTPServer
Creation time: Tue Aug 15 16:43:11 UTC 2023
```

select * from permstldb.jobl_job_chunk where job_instance_id=2095;

ID	JOB_INSTANCE_ID	CHUNK_N	THREAD_NAME_C	NATURE_C	START_TIME_D	END_TIME_D	SUCCESS_N
2286	2095	4	jobLauncherThreadpoolTaskExecutor-5	main	15-08-23 4:43:13.15300000	PM 15-08-23 4:43:13.72100000	0
2290	2095	7	jobLauncherThreadpoolTaskExecutor-52	main	15-08-23 4:43:13.77800000	PM 15-08-23 4:43:14.30100000	0
2291	2095	8	jobLauncherThreadpoolTaskExecutor-52	main	15-08-23 4:43:14.30700000	PM 15-08-23 4:43:14.62000000	0
2294	2095	2	jobLauncherThreadpoolTaskExecutor-52	main	15-08-23 4:43:12.61100000	PM 15-08-23 4:43:13.15600000	0
2285	2095	3	jobLauncherThreadpoolTaskExecutor-5	main	15-08-23 4:43:12.62400000	PM 15-08-23 4:43:13.14600000	0
2287	2095	5	jobLauncherThreadpoolTaskExecutor-52	main	15-08-23 4:43:13.16300000	PM 15-08-23 4:43:13.77100000	0
2288	2095	6	jobLauncherThreadpoolTaskExecutor-5	main	15-08-23 4:43:13.73700000	PM 15-08-23 4:43:14.40300000	0
2292	2095	9	jobLauncherThreadpoolTaskExecutor-5	main	15-08-23 4:43:14.41000000	PM 15-08-23 4:43:14.95900000	0
2295	2095	12	jobLauncherThreadpoolTaskExecutor-52	main	15-08-23 4:43:27.43800000	PM 15-08-23 4:43:38.15800000	1
2260	2095	13	jobLauncherThreadpoolTaskExecutor-52	post	15-08-23 4:43:38.38700000	PM 15-08-23 4:43:38.57100000	1
2096	2095	0	jobLauncherThreadpoolTaskExecutor-41	pre	15-08-23 4:43:11.43500000	PM 15-08-23 4:43:12.31600000	1
2293	2095	10	jobLauncherThreadpoolTaskExecutor-52	main	15-08-23 4:43:14.82600000	PM 15-08-23 4:43:27.42700000	1
2283	2095	1	jobLauncherThreadpoolTaskExecutor-41	main	15-08-23 4:43:12.55500000	PM 15-08-23 4:43:28.35600000	1
2294	2095	11	jobLauncherThreadpoolTaskExecutor-5	main	15-08-23 4:43:14.96500000	PM 15-08-23 4:43:32.34200000	1

Linking tsl job id to tables:

Events for

Event Time	Step Name	Start	End
Aug 15, 2023 4:43:12 PM	Export data formats = [PCK_PREC_INSTR_EXP] _tslJobId=25 chunkNumber=3	Aug 15, 2023 4:43:12 PM	Aug 15, 2023 4:43:13 PM
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_FWD001_EURUSD_T_AL_FwdUSD/EUR/T_AL_Fwd002_EUR/CHFT_Alf_FwdCHF/EUR/T_AL_FWD003_USD/CHFT_Alf_FwdCHF/USD.T_AL_Fwd005_CHF/GBPT_Alf_FWD007_CHF/GBPT_Alf_Fwd011_NdEUR/USD.T_AL_NdCHF/USD		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_NdCHF/GBPT_Alf_FWD004_AI_FwdUSD/USD.T_AL_FwdUSD/EUR_QT_Alf_Fwd006_EUR/USD_T_AL_Fwd1216_T_AL_Fwd1218_T_AL_EUR_MM001_T_AL_CHF_MM002_T_AL_USD_MM003_T_AL_CALL_EUR/17CHF_1218		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_PUT_EUR/1.16CHF_1218_T_AL_CALL_EUR/1.16CHF_1216_T_AL_PUT_EUR/1.16CHF_0087255_T_AL_CHF_Call04_T_AL_EUR_Put04_T_AL_USD_Call10_T_AL_GBP_Call_11		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_JPY_Put_10_T_AL_JPY_Put_11_T_AL_CHF_Call_15_T_AL_CHF_Call_16_T_AL_CHF_Put_15_T_AL_CHF_Opcnmtz_T_AL_CHF_ARB_AB103_T_AL_FxSwap_PutDEUR		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_FxSwap_CHFEURT_AL_FxSwap_EURCHFT_Alf_FxSwap_JPYUSD_T_AL_EUR_FXSP_GEN_T_AL_CHF_FXSP_GEN_T_AL_USD_FXSP_BASIC_T_AL_GBP_FXSP_BASIC_T_AL_CCIRS_10Y_150EUR_pLIBCHF3M_T_AL_CCIRS_5Y_pLIBUSD6M_Pl		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_CCIRS_15Y_200GBP_p210USD_T_AL_CCIRS_GEN_10Y_pLIBCHF6M_pLIBUR86M_T_AL_129_NI_1_T_AL_129_NI_2_T_AL_129_NI_3_T_AL_129_NI_4_T_AL_129_NI_5_T_AL_129_NI_6_T_AL_129_NI_7		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_129_NI_8_T_AL_129_NI_9_T_AL_129_NI_10_T_AL_129_NI_11_T_AL_129_NI_12_T_AL_129_NI_13_T_AL_129_NI_14_T_AL_129_NI_15_T_AL_129_NI_16		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_129_NI_17_T_AL_JPY_6752_T_AL_JPY_6773_T_AL_JPY_9501_T_AL_GBP_ALLD_T_AL_GBP_ANL_T_AL_GBP_AVZ_T_AL_GBP_BAA		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_BARC_T_AL_GBP_BATS_T_AL_GBP_BYAT_Alf_GBP_BLTT_Alf_GBP_BOCT_Alf_GBP_BOOT_T_AL_GBP_BSCTT_Alf_GBP_BYSP_T_AL_GBP_CCM		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_CMG_T_AL_GBP_CNA_T_AL_GBP_CPG_T_AL_GBP_CPT_Alf_GBP_CMFT_Alf_GBP_DGE_T_AL_GBP_DMGT_Alf_GBP_DNXT_Alf_GBP_ECM		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_EGS_T_AL_GBP_EMIT_Alf_GBP_GAAT_Alf_GBP_GKNT_Alf_GBP_GUS_T_AL_GBP_HAS_T_AL_GBP_HNST_T_AL_GBP_HSBA_T_AL_GBP_ICI		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_IMTT_Alf_GBP_KGFT_Alf_GBP_LAND_T_AL_GBP_LLOYT_Alf_GBP_LOGT_Alf_GBP_MKST_Alf_GBP_MRWT_Alf_GBP_MS		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_NAM_T_AL_GBP_NGG_T_AL_GBP_NXT_T_AL_GBP_PRUT_Alf_GBP_PSONT_Alf_GBP_PVNG_T_AL_GBP_RBOST_Alf_GBP_REED_T_AL_GBP_RIO		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_RTO_T_AL_GBP_RTR_T_AL_GBP_SBRVT_Alf_GBP_SCTNT_Alf_GBP_SDRT_Alf_GBP_SGE_T_AL_GBP_SHELT_Alf_GBP_SHP_T_AL_GBP_SMIN		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_SPWT_Alf_GBP_SSE_T_AL_GBP_STANT_Alf_GBP_TSCT_Alf_GBP_TWIT_Alf_GBP_ULVR_T_AL_GBP_VOO_T_AL_GBP_WPPT_Alf_USD_AA		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_AXPT_Alf_USD_BT_Alf_USD_CTT_Alf_USD_CATT_Alf_USD_DD_T_AL_USD_EKT_Alf_USD_GET_Alf_USD_GM		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_GBP_HDT_Alf_USD_HON_T_AL_USD_HWP_T_AL_USD_IPT_Alf_USD_JNDT_Alf_USD_JPM_T_AL_USD_KO		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_USD_MCD_T_AL_USD_MMFT_Alf_USD_MOT_Alf_USD_MRKT_Alf_USD_MSFTT_Alf_USD_PGT_Alf_USD_SBC_T_AL_USD_TT_Alf_USD_UTX		
Aug 15, 2023 4:43:12 PM	Export Chunk Content T_AL_USD_WMT_T_AL_USD_XOM_T_AL_CAD_WJA_T_AL_CAD_WNT_Alf_CAD_WRM_T_AL_CAD_WTO_T_AL_CAD_XT_Alf_CAD_ZEN_T_AL_CAD_ZL		

```

9 | select id,begin_d,invalid_d,end_d,portfoliosetId_tb_name,entity_dict_id,user_context from aaamaindb.tasc_job where id=25;
Script Output x Query Result x
SQL | All Rows Fetched: 1 in 0.183 seconds


| ID | BEGIN_D                       | INVALID_D                     | END_D                         | PORTFOLIOSET_TB_NAME | ENTITY_DICT_ID | USER_CONTEXT |
|----|-------------------------------|-------------------------------|-------------------------------|----------------------|----------------|--------------|
| 25 | 15-08-23 4:43:11.000000000 PM | 15-08-23 4:43:38.000000000 PM | 15-08-23 5:10:03.000000000 PM | tjo_00000000000025   | 9002095        |              |


9 | select * from tasc_job_table where job_id=25;
Script Output x Query Result x
SQL | All Rows Fetched: 1 in 0.183 seconds


| JOB_ID | FORMAT_CODE                  | DATABASE_NAME             | TABLE_NAME | VIEW_NAME | BEGIN_D                       | END_D                         | LAST_READ_D | TABLE_OWNER | FULL_TABLE_NAME       |
|--------|------------------------------|---------------------------|------------|-----------|-------------------------------|-------------------------------|-------------|-------------|-----------------------|
| 25     | PCK_PREC_INSTR_EXP TEMPTSldb | C_INSTR_EXP_0000000000025 | (null)     |           | 15-08-23 4:43:11.000000000 PM | 15-08-23 5:10:03.000000000 PM | (null)      | aaa         | TEMPTSldb.C_INSTR_EXP |


5 | select id, access_e, mode_e, validity_e, function_name, database_name, portfoliosetId_tb_name, user_context, tsl_prec_job_element_id
6 | from tasc_job where user_context=17836;
Script Output x Query Result x
SQL | All Rows Fetched: 2 in 0.193 seconds


| ID | ACCESS_E | MODE_E | VALIDITY_E | FUNCTION_NAME | DATABASE_NAME | PORTFOLIOSET_TB_NAME | USER_CONTEXT | TSL_PREC_JOB_ELEMENT_ID |
|----|----------|--------|------------|---------------|---------------|----------------------|--------------|-------------------------|
| 1  | 2003     | 2      | 5          | 3 function    | TEMPTSldb     | tjo_000000000002003  | 17836        | 55                      |
| 2  | 2004     | 2      | 5          | 3 function    | TEMPTSldb     | tjo_000000000002003  | 17836        | 56                      |


select * from tsl_prec_job_element where id in (55,56);
Script Output x Query Result x
SQL | All Rows Fetched: 2 in 0.197 seconds


| ID | TSL_PREC_JOB_ID | CODE           | PRIORITY_N | SCREEN_DICT_ID | JOB_TYPE_E | CREATION_D                    | CREATION_USER_ID               | LAST_MODIF_D | LAST_USER_ID |
|----|-----------------|----------------|------------|----------------|------------|-------------------------------|--------------------------------|--------------|--------------|
| 55 | 49              | EXPORT         | 1          | (null)         | 3          | 15-08-23 1:46:59.681181000 PM | 115-08-23 1:46:59.681181000 PM | 1            | 1            |
| 56 | 49              | PROCESSING_SQL | 2          | (null)         | 2          | 15-08-23 1:46:59.687185000 PM | 115-08-23 1:46:59.687185000 PM | 1            | 1            |


18 | select * from tsl_prec_job where id=49;
Script Output x Query Result x
SQL | All Rows Fetched: 1 in 0.212 seconds


| ID | CODE               | DEVON                     | NATURE_E | ENTITY_DICT_ID | PACKAGING_NATURE_E | PRIORITY_N | JOB_QUEUE                 | DATA_DEPENDENCY_PARAM_VALUE | CHUNK_SIZE | CREATION_D         |
|----|--------------------|---------------------------|----------|----------------|--------------------|------------|---------------------------|-----------------------------|------------|--------------------|
| 49 | PCK_FULL_INSTR_EXT | full extension instrument | 1        | 900            | 1                  | 1          | default_precomp_job_queue | (null)                      | 500        | 15-08-23 1:46:59.4 |


```

Linking Job Id to table:

tasc_job.id -> tasc_job_table.job_id
tasc_job contains all the list of tables and formats

```
select id,format_list,tsl_login,entity_dict_id from tasc_job where id=691;
```

```
1 691 PCK_DS_PA1_CLI_PTF tasc 800
```

```
select job_id,format_code,database_name,table_name,view_name,full_table_name from tasc_job_table where job_id=691;
```

```
1 691 PCK_DS_PA1_CLI_PTF TEMPTSldb X_00000000000691 X_0000000000000691 TEMPTSldb.X_00000000000691
```

Application bean mappings

/main/resources/META-INF/spring/applicationContext-tsl-fc-internals.xml

Mapping between the tasc_job_table and tasc_prec_job

```
>tasc_prec_job.pre_cache_job_id = tasc_job_table.job_id
```

```
=====
```

From server.log pick up the job_id=705586 link:

```
select * from tasc_job where id=705586; -- Details of the job (find in server.log)
select * from tasc_job_table where job_id=705586; --Contains the table name where data is going to be stored
select * from permsldb.tjo_00000000705586; --Contains the chunk number and portfolio_id running in parallel threads
```

```
Script Output x Query Result x
SQL | All Rows Fetched: 1 in 0.015 seconds


| ID     | BEGIN_D                         | ACTIVE_D                        | INVALID_D | BID_D  | ACCESS_E | MODE_E | VALIDITY_E | FUNCTION_NAME | DATABASE_NAME | PORTFOLIOSET_TB_NAME | MESSAGE |
|--------|---------------------------------|---------------------------------|-----------|--------|----------|--------|------------|---------------|---------------|----------------------|---------|
| 705586 | 16-SEP-22 09.27.50.000000000 AM | 16-SEP-22 09.29.29.000000000 AM | (null)    | (null) | 2        | 2      | 1          | function      | PERMTSldb     | tjo_00000000705586   | (null)  |


```

```
select * from tasc_job where id=705586; -- Details of the job (find in server.log)
select * from tasc_job_table where job_id=705586; --Contains the table name where data is going to be stored
select * from permsldb.tjo_00000000705586; --Contains the chunk number and portfolio_id running in parallel threads
```

```
Script Output x Query Result x
```

```
SQL | All Rows Fetched: 1 in 0 seconds


| JOB_ID | FORMAT_CODE              | DATABASE_NAME         | TABLE_NAME            | VIEW_NAME                       | BID_D  | LASTREAD_D | TABLE_OWNER | FULL_TABLE_NAME           |
|--------|--------------------------|-----------------------|-----------------------|---------------------------------|--------|------------|-------------|---------------------------|
| 705586 | PCK_GL_HC_VALO PERMTSldb | HC_TAL_00000000705586 | HC_TAL_00000000705586 | 16-SEP-22 09.27.50.000000000 AM | (null) | (null)     | aaa         | PERMTSldb.HC_VAL_00000000 |


```

```
3 select * from tasc_job where id=705586; -- Details of the job (find in server.log)
4 select * from tasc_job_table where job_id=705586; --Contains the table name where data is going to be stored
5 select * from permsldb.tjo_00000000705586; --Contains the chunk number and portfolio_id running in parallel threads
```

```
Script Output x Query Result x
SQL | All Rows Fetched: 2 in 0 seconds


| ID | ENTITY_DICT_ID | PORTFOLIO_ID | PRECOMPUTED_F | CHUNK_NUMBER |
|----|----------------|--------------|---------------|--------------|
| 1  | 800            | 2            | 0             | 1            |
| 2  | 800            | 29           | 0             | 1            |


```

```
select * from permsldb.jobl_job_instance where id=100121;
select * from permsldb.jobl_job_instance_params where job_instance_id=100121;
select * from permsldb.jobl_job_chunk where /*job_instance_id=100121*/ thread_name_c='jobLauncherThreadPoolTaskExecutor-24' order by start_time_d,-2281,2284
select * from permsldb.jobl_step where job_chunk_id in (select id from permsldb.jobl_job_chunk where job_instance_id=100121);
select * from permsldb.jobl_event where step_id in (select id from permsldb.jobl_step where job_chunk_id in (select id from permsldb.jobl_job_chunk where job_instance_id=100121));
select * from tasc_job where user_context=100121;
```

```
:> monitor-job -i 112650
```

```
Displaying job(id=112650) with options[o=full, withoutChunks]
```

```
:> monitor-job -i 112650
```

Displaying job(id=112650) with options[o=full, withoutChunks]

```
Id : 112650
Name : jar:file:/data/tap/TAP_UTP/ocshome/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/batch/common/tsl-precomp-entity-job.xml
Status : failed
Nature :
Business summary : Precomp Entity Job on portfolio entity with code PCK_DS_ALL_PTF and dimension LIST
Job type : tsl-precomp-entity
Service type :
Total number of tasks : 79
Number of tasks succeeded : 34
Number of tasks failed : 45
Owner : aaa:manager/advisor
Server : TAP_UTPServer
Creation time : 2023.09.04 05:30:29
Start time : 2023.09.04 05:30:29
Duration : 5m 29s 541ms
Result summary : null
Parent Job : 0
Business errors : 0
Business warnings : 0
```

Runtime parameters

=====
Log Shell Monitoring Scheduler JobLauncher Reporting
Succeeded instances

Job Instance Details

Name: jar:file:/oams/CIP_LX_ORA_JB2/ocshome/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/batch/common/tsl-precomp-entity-job.xml
Summary: Precomp Entity Job on portfolio entity with code T_AI_ALL_BUT_FAILING and dimension LIST
Type: tsl-precomp-entity
Start Time: Dec 6, 2023 1:48:12 AM
End Time: Dec 6, 2023 1:54:13 AM
Identifier: 8611
Status: succeeded
Owner: aaa:user/advisor

select * from permstldb.jobl_job_instance where id=8611;

Output x Query Result x
SQL | All Rows Fetched: 1 in 0.3 seconds
ID NAME_C OWNER_C
8611 jar:file:/oams/CIP_LX_ORA_JB2/ocshome/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/batch/common/tsl-precomp-entity-job.xml aaa:user/advisor

select * from permstldb.jobl_job_instance where id=8611;

Output x Query Result x
SQL | All Rows Fetched: 1 in 0.3 seconds
JOB_SUMMARY_C RESULT_SUMMARY_C BUSINESS_ERRORS_N BUSINESS_WARNINGS_N JOB_TYPE_C JOB_NATURE_N
Precomp Entity Job on portfolio entity with code T_AI_ALL_BUT_FAILING and dimension LIST (null) (null) (null) tsl-precomp-entity 1

select * from permstldb.jobl_job_instance where id=8611;

Output x Query Result x
SQL | All Rows Fetched: 1 in 0.3 seconds
PERSISTENT_PARAMS_N SERVICE_TYPE_C CREATION_TIME_D START_TIME_D END_TIME_D STATUS_C FAILURE_C DELETED_N TASKS_NUMBER_N LAST_MODIFIED_D
1 (null) 06-12-23 1:40:12.945000000 AM 06-12-23 1:48:12.962000000 AM 06-12-23 1:54:13.058000000 AM succeeded (null) 0 3606-12-23 1

select * from permstldb.jobl_job_instance where id=8611;

Output x Query Result x
SQL | All Rows Fetched: 1 in 0.3 seconds
END_TIME_D STATUS_C FAILURE_C DELETED_N TASKS_NUMBER_N LAST_MODIFIED_D JOB_SERVER_VM_NAME_C PARENT_JOB_ID OWNER_BUSINESS_ENTITY_ID
12.962000000 AM 06-12-23 1:54:13.058000000 AM succeeded (null) 0 3606-12-23 1:54:13.058000000 AM CIP_LX_ORA_JB2Server (null) 2

=====
Parameters

Key	Value
entity	portfolio
entityDimCode	T_AI_ALL_BUT_FAILING
entityDimE	2

Results 1 to 3 of 3
Back Relaunch

select * from permstldb.jobl_job_instance_params where job_instance_id=8611;

Output x Query Result x
SQL | All Rows Fetched: 3 in 0.288 seconds
JOB_INSTANCE_ID KEY_C VALUE_C OWNER_BUSINESS_ENTITY_ID
8611entity portfolio 2
8611entityDimCode T_AI_ALL_BUT_FAILING 2
8611entityDimE 2 2

Step Name	Average time	Max time	Min time	Total time	Num executed	Num failed	Standard Deviation
tsl:exec-parallel-jobs	1m 6s 756ms	2m 4s 288ms	15s 552ms		34		26,486.09
tsl:merge-x-table	16 109ms	2s 682ms	997ms		34		271.56
tsl:merge-search-table	121ms	194ms	62ms		34		34.86
tsl:insert-outbox-table	4ms	23ms	2ms		34		5.00
tsl:post-global	54ms	54ms	54ms		1		0.00
BPI:DataSlicer[spring:tslFcPrecompEntityDataSlicerJob]	179ms	179ms	179ms		1		0.00
tsl:post-parallel-jobs	51ms	51ms	51ms		1		0.00
BPI:DomainLoader[spring:tslFcPrecompEntityDomainLoader]	3s 840ms	3s 840ms	3s 840ms		1		0.00

Results 1 to 8 of 8

select * from permstslsdb.jobl_step where job_chunk_id in (select id from permstslsdb.jobl_job_chunk where job_instance_id=8611) order by name_c;

Output x Query Result x

All Rows Fetched: 140 in 0.526 seconds

ID	JOB_CHUNK_ID	NAME_C	START_TIME_D	END_TIME_D	SUCCESS_N	FAILURE_C
8614	8612BPI:DataSlicer[spring:tslFcPrecompEntityDataSlicerJob]	06-12-23 1:48:16.818000000 AM	06-12-23 1:48:16.997000000 AM	1	(null)	
8613	8612BPI:DomainLoader[spring:tslFcPrecompEntityDomainLoader]	06-12-23 1:48:12.975000000 AM	06-12-23 1:48:16.815000000 AM	1	(null)	
8650	8616tsl:exec-parallel-jobs	06-12-23 1:40:17.008000000 AM	06-12-23 1:48:56.366000000 AM	1	(null)	
8692	8624tsl:exec-parallel-jobs	06-12-23 1:48:58.077000000 AM	06-12-23 1:49:50.362000000 AM	1	(null)	
8649	8615tsl:exec-parallel-jobs	06-12-23 1:48:17.008000000 AM	06-12-23 1:49:59.783000000 AM	1	(null)	
8651	8617tsl:exec-parallel-jobs	06-12-23 1:48:17.014000000 AM	06-12-23 1:48:54.066000000 AM	1	(null)	
8655	8618tsl:exec-parallel-jobs	06-12-23 1:48:25.968000000 AM	06-12-23 1:49:01.967000000 AM	1	(null)	
8659	8619tsl:exec-parallel-jobs	06-12-23 1:48:27.943000000 AM	06-12-23 1:49:04.315000000 AM	1	(null)	
8670	8621tsl:exec-parallel-jobs	06-12-23 1:48:36.437000000 AM	06-12-23 1:49:25.423000000 AM	1	(null)	
8675	8622tsl:exec-parallel-jobs	06-12-23 1:48:41.028000000 AM	06-12-23 1:49:26.076000000 AM	1	(null)	
8906	8625tsl:exec-parallel-jobs	06-12-23 1:49:01.266000000 AM	06-12-23 1:49:48.422000000 AM	1	(null)	
8914	8626tsl:exec-parallel-jobs	06-12-23 1:49:03.915000000 AM	06-12-23 1:50:36.539000000 AM	1	(null)	
8930	8628tsl:exec-parallel-jobs	06-12-23 1:49:26.971000000 AM	06-12-23 1:50:51.460000000 AM	1	(null)	
8941	8629tsl:exec-parallel-jobs	06-12-23 1:49:28.235000000 AM	06-12-23 1:50:44.249000000 AM	1	(null)	
8954	8630tsl:exec-parallel-jobs	06-12-23 1:49:32.157000000 AM	06-12-23 1:50:53.740000000 AM	1	(null)	
8979	8633tsl:exec-parallel-jobs	06-12-23 1:49:52.491000000 AM	06-12-23 1:51:04.008000000 AM	1	(null)	
8999	8634tsl:exec-parallel-jobs	06-12-23 1:50:28.816000000 AM	06-12-23 1:52:07.222000000 AM	1	(null)	
9313	8635tsl:exec-parallel-jobs	06-12-23 1:50:38.216000000 AM	06-12-23 1:52:06.094000000 AM	1	(null)	
9320	8636tsl:exec-parallel-jobs	06-12-23 1:50:45.857000000 AM	06-12-23 1:51:36.632000000 AM	1	(null)	
9331	8637tsl:exec-parallel-jobs	06-12-23 1:50:53.519000000 AM	06-12-23 1:52:57.807000000 AM	1	(null)	
8923	8627tsl:exec-parallel-jobs	06-12-23 1:49:16.314000000 AM	06-12-23 1:50:25.719000000 AM	1	(null)	

Steps for

Number	Nature	pre	Start Time	Dec 6, 2023 1:48:12 AM	End Time	Dec 6, 2023 1:48:16 AM
	Name					
BPI:DomainLoader[spring:tslFcPrecompEntityDomainLoader]				Dec 6, 2023 1:48:12 AM	Dec 6, 2023 1:48:16 AM	✓
BPI:DataSlicer[spring:tslFcPrecompEntityDataSlicerJob]				Dec 6, 2023 1:48:16 AM	Dec 6, 2023 1:48:16 AM	✓

Results 1 to 2 of 2

Events for

Event Time	Step Name	Start	End
Dec 6, 2023 1:48:12 AM	entityName: portfolio	Dec 6, 2023 1:48:12 AM	Dec 6, 2023 1:48:16 AM
Dec 6, 2023 1:48:12 AM	entityDimE: 2		
Dec 6, 2023 1:48:12 AM	entityDimCode: T_AI_ALL_BUT_FAILING		
Dec 6, 2023 1:48:12 AM	precompMode: CREATE		
Dec 6, 2023 1:48:12 AM	numberofJobs: 10		
Dec 6, 2023 1:48:13 AM	globalTslJobExecutionId: 161		
Dec 6, 2023 1:48:13 AM	init data persist		
Dec 6, 2023 1:48:16 AM	-> Step HIER_PERFORMANCE, tslJobId=75, jobExecId=162, loadHierarchyF=1, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	-> Step HIER_CHECKSTRAT, tslJobId=74, jobExecId=163, loadHierarchyF=1, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	-> Step HIER_C_MVT, tslJobId=73, jobExecId=164, loadHierarchyF=1, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	-> Step CHECKSTRAT, tslJobId=70, jobExecId=165, loadHierarchyF=0, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	Warn : loadHierarchyF=0 of step CHECKSTRAT has not the same value of financial job HIER_C_MVT (used for create object composition)		
Dec 6, 2023 1:48:16 AM	-> Step HIER_VALIDATION, tslJobId=72, jobExecId=166, loadHierarchyF=0, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	Warn : loadHierarchyF=0 of step VALIDATION has not the same value of financial job HIER_VALIDATION (used for create object composition)		
Dec 6, 2023 1:48:16 AM	-> Step CASH_MVT, tslJobId=69, jobExecId=168, loadHierarchyF=0, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	Warn : loadHierarchyF=0 of step CASH_MVT has not the same value of financial job HIER_VALIDATION (used for create object composition)		
Dec 6, 2023 1:48:16 AM	-> Step HIER_VALIDATION, tslJobId=71, jobExecId=169, loadHierarchyF=0, remainingEntities=1658		
Dec 6, 2023 1:48:16 AM	Warn : loadHierarchyF=0 of step PERFORMANCE has not the same value of financial job HIER_VALIDATION (used for create object composition)		
Dec 6, 2023 1:48:16 AM	-> Step EXPORT, tslJobId=77, jobExecId=170, remainingEntities=1658		

select * from permstslsdb.jobl_step where job_chunk_id in (select id from permstslsdb.jobl_job_chunk where job_instance_id=8611) order by name_c;

Output x Query Result x

Fetched 50 rows in 0.21 seconds

ID	JOB_CHUNK_ID	NAME_C	START_TIME_D	END_TIME_D	SUCCESS_N	FAILURE_C
8614	8612BPI:DataSlicer[spring:tslFcPrecompEntityDataSlicerJob]	06-12-23 1:48:16.818000000 AM	06-12-23 1:48:16.997000000 AM	1	(null)	
8613	8612BPI:DomainLoader[spring:tslFcPrecompEntityDomainLoader]	06-12-23 1:48:12.975000000 AM	06-12-23 1:48:16.815000000 AM	1	(null)	
8650	8616tsl:exec-parallel-jobs	06-12-23 1:48:17.008000000 AM	06-12-23 1:48:56.366000000 AM	1	(null)	
8692	8624tsl:exec-parallel-jobs	06-12-23 1:48:58.077000000 AM	06-12-23 1:49:50.362000000 AM	1	(null)	

select * from permstslsdb.jobl_event where step_id=8613 order by id;

Output x Query Result x

All Rows Fetched: 21 in 0.158 seconds

ID	STEP_ID	EVENT_C
8534	8613	entityName: portfolio
8535	8613	entityDimE: 2
8536	8613	entityDimCode: T_AI_ALL_BUT_FAILING
8537	8613	precompMode: CREATE
8538	8613	numberofJobs: 10
8539	8613	globalTslJobExecutionId: 161
8540	8613	Init data persist
8553	8613	-> Step HIER_PERFORMANCE, tslJobId=75, jobExecId=162, loadHierarchyF=1, remainingEntities=1658
8554	8613	-> Step HIER_CHECKSTRAT, tslJobId=74, jobExecId=163, loadHierarchyF=1, remainingEntities=1658
8555	8613	-> Step HIER_C_MVT, tslJobId=73, jobExecId=164, loadHierarchyF=1, remainingEntities=1658
8556	8613	-> Step CHECKSTRAT, tslJobId=70, jobExecId=165, loadHierarchyF=0, remainingEntities=1658
8557	8613	Warn : loadHierarchyF=0 of step CHECKSTRAT has not the same value of financial job HIER_C_MVT (used for create object composition)
8558	8613	-> Step HIER_VALIDATION, tslJobId=76, jobExecId=166, loadHierarchyF=1, remainingEntities=1658
8559	8613	-> Step VALIDATION, tslJobId=72, jobExecId=167, loadHierarchyF=0, remainingEntities=1658
8560	8613	Warn : loadHierarchyF=0 of step VALIDATION has not the same value of financial job HIER_VALIDATION (used for create object composition)
8561	8613	-> Step CASH_MVT, tslJobId=69, jobExecId=168, loadHierarchyF=0, remainingEntities=1658
8562	8613	Warn : loadHierarchyF=0 of step CASH_MVT has not the same value of financial job HIER_VALIDATION (used for create object composition)
8563	8613	-> Step PERFORMANCE, tslJobId=71, jobExecId=169, loadHierarchyF=0, remainingEntities=1658
8564	8613	Warn : loadHierarchyF=0 of step PERFORMANCE has not the same value of financial job HIER_VALIDATION (used for create object composition)
8565	8613	-> Step EXPORT, tslJobId=77, jobExecId=170, remainingEntities=1658
8566	8613	-> Step PROCESSING_SQL, tslJobId=78, jobExecId=171, remainingEntities=1658

ASCII Table Symbols - Character sets SQL

10 August 2022 14:15

ASCII Symbol Names		Hexadecimal ASCII CODE															
NUL	null	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
SOH	start of heading	NUL	SOH	STX	ETX	EOT	ENQ	ACK	BEL	BS	HT	NL	VT	NP	CR	SO	SI
STX	start of text	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F
ETX	end of text	DLE	DC1	DC2	DC3	DC4	NAK	SYN	ETB	CAN	EM	SUB	ESC	FS	GS	RS	US
EOT	end of transmission	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F
ENQ	enquiry	SP	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
ACK	acknowledge	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F
BEL	bell	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
BS	backspace	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
HT	horizontal tab	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
NL	new line (or LF, line feed)	50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F
VT	vertical tab	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
NP	new page (or FF, form feed)	60	61	62	63	64	65	66	67	68	69	6A	6B	6C	6D	6E	6F
CR	carriage return	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
SO	shift out	70	71	72	73	74	75	76	77	78	79	7A	7B	7C	7D	7E	7F
SI	shift in	p	q	r	s	t	u	v	w	x	y	z	{		}	~	DEL
DLE	data link escape	Octal ASCII CODE															
DC1	device control 1	000	001	002	003	004	005	006	007	010	011	012	013	014	015	016	017
DC2	device control 2	NUL	SOH	STX	ETX	EOT	ENQ	ACK	BEL	BS	HT	NL	VT	NP	CR	SO	SI
DC3	device control 3	020	021	022	023	024	025	026	027	030	031	032	033	034	035	036	037
DC4	device control 4	DLE	DC1	DC2	DC3	DC4	NAK	SYN	ETB	CAN	EM	SUB	ESC	FS	GS	RS	US
NAK	negative acknowledge	040	041	042	043	044	045	046	047	050	051	052	053	054	055	056	057
SYN	synchronous idle	SP	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
ETB	end of transmission block	060	061	062	063	064	065	066	067	070	071	072	073	074	075	076	077
CAN	cancel	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
EM	end of medium	100	101	102	103	104	105	106	107	110	111	112	113	114	115	116	117
SUB	substitute	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ESC	escape	120	121	122	123	124	125	126	127	130	131	132	133	134	135	136	137
FS	file separator	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
GS	group separator	140	141	142	143	144	145	146	147	150	151	152	153	154	155	156	157
RS	record separator	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
US	unit separator	160	161	162	163	164	165	166	167	170	171	172	173	174	175	176	177
SP	space	p	q	r	s	t	u	v	w	x	y	z	{		}	~	DEL
Decimal ASCII CODE																	
000 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015																	

SP	space
----	-------

Decimal ASCII CODE	
000	001
002	003
004	005
006	007
008	009
010	011
012	013
014	015
NUL	SOH
STX	EOT
ENQ	ACK
BEL	BS
HT	NL
VT	NP
CR	SO
SI	
016	017
018	019
020	021
022	023
024	025
026	027
028	029
030	031
DLE	DC1
DC2	DC3
DC4	NAK
SYN	ETB
CAN	EM
SUB	ESC
FS	GS
RS	US
032	033
034	035
036	037
038	039
040	041
042	043
044	045
046	047
SP	!
"	#
\$	%
&	'
()
*	+
,	-
.	/
048	049
050	051
052	053
054	055
056	057
058	059
060	061
062	063
0	1
2	3
4	5
5	6
7	8
8	9
:	;
<	=
>	?
064	065
066	067
068	069
070	071
072	073
074	075
076	077
078	079
@	A
A	B
B	C
C	D
D	E
E	F
F	G
G	H
H	I
I	J
J	K
K	L
L	M
M	N
N	O
080	081
082	083
084	085
086	087
088	089
090	091
092	093
094	095
P	Q
Q	R
R	S
S	T
T	U
U	V
V	W
W	X
X	Y
Y	Z
Z	[
[\
\]
^	_
096	097
098	099
099	100
100	101
101	102
102	103
103	104
104	105
105	106
106	107
107	108
108	109
109	110
110	111
`	a
a	b
b	c
c	d
d	e
e	f
f	g
g	h
h	i
i	j
j	k
k	l
l	m
m	n
n	o
112	113
113	114
114	115
115	116
116	117
117	118
118	119
119	120
120	121
121	122
122	123
123	124
124	125
125	126
126	127
p	q
q	r
r	s
s	t
t	u
u	v
v	w
w	x
x	y
y	z
z	{
{	
	}
~	DEL

SQL> select * from nls_database_parameters;

```
3 | select * from nls_database_parameters;
4 | select * from event;
```

PARAMETER	VALUE
1 NLS_RDBMS_VERSION	12.2.0.1.0
2 NLS_NCHAR_CONV_EXCP	FALSE
3 NLS_LENGTH_SEMANTICS	BYTE
4 NLS_COMP	BINARY
5 NLS_DUAL_CURRENCY	\$
6 NLS_TIMESTAMP_TZ_FORMAT	DD-MON-RR HH.MI.SSXFF AM TZR
7 NLS_TIME_TZ_FORMAT	HH.MI.SSXFF AM TZR
8 NLS_TIMESTAMP_FORMAT	DD-MON-RR HH.MI.SSXFF AM
9 NLS_TIME_FORMAT	HH.MI.SSXFF AM
10 NLS_SORT	BINARY
11 NLS_DATE_LANGUAGE	AMERICAN
12 NLS_DATE_FORMAT	DD-MON-RR
13 NLS_CALENDAR	GREGORIAN
14 NLS_NUMERIC_CHARACTERS	,.
15 NLS_NCHAR_CHARACTERSET	AL16UTF16
16 NLS_CHARACTERSET	AL32UTF8
17 NLS_ISO_CURRENCY	AMERICA
18 NLS_CURRENCY	\$
19 NLS_TERRITORY	AMERICA
20 NLS_LANGUAGE	AMERICAN

Unit test framework in TAP

02 August 2022 22:05

Project for run Unit Tests

The project uses the catchcpp framework ,see github project <https://github.com/catchorg/Catch2> (or 1.x)
see also <https://github.com/xkbeyer/CatchTestAdapter>

1- Unit test Design

=====

The FMK catchcpp is one file ! , catch.hpp

We have a main file for initializing the server and the the FMK catchcpp , unittest.cpp

The idea is to have one file by subject.

testsfusion.cpp => test of fusion.
ut_lock.cpp => test of locks
etc...

2 - Add a new test in existing test : open file and add this :

=====

```
TEST_CASE("My Test", "[mytag]") {
    REQUIRE(MyFunction() == true);
}
```

3 - Add new tests in separate file

=====

Create a file and add #include "catch.hpp", that's all.
ex:

```
# include "catch.hpp"

TEST_CASE("Mytest", "[mytag]") {
    REQUIRE(MyFunction() == 0);
}
```

NOTE: the second parameter can be a list of tags [tag1][tag2],etccc.

a special tag [...] causes test cases to be skipped from the default list

4 Run the tests

=====

All tests are started by the program unittest

The program takes 2 blocks of arguments, the first one for Triple'a Core, and second for catchcpp. the doubledash '--' is the separator.
unittest.exe [args ta] -- [args catchcpp]

ex : 1 Run unit tests with tag fusion in environment CIP_LX2_ORA_WLS

 unittest.exe -Uaaa -Paaaaaa -CCIP_LX2_ORA_WLS -FW:\advisor\TA\23.0.0\triplea_core\TestFusion -- [fusion]

2 Run all unit tests in environment CIP_LX2_ORA_WLS

 unittest.exe -Uaaa -Paaaaaa -CCIP_LX2_ORA_WLS

4.1 details of TA core arguments:

-U user

-P passwd

-V display build version

-C name of configuration

-F folder , Changes current directory (chdir)

4.2 details of catchcpp arguments

most used arguments

- the test specification :

 ex : [fusion][adjustment] => Matches all cases with tags [Fusion] & [adjustment]

 Fusion* => Matches all cases starting with 'Fusion'

..

- -r junit , generate a junit report to standard output ,can be redirect to a file

 ex: unittest.exe -Uaaa -Paaaaaa -CCIP_LX2_ORA_WLS -- -r junit > w:\junit_report_test_ta.xml

see <https://github.com/catchorg/Catch2/blob-devel/docs/command-line.md>

5 - Launch the tests from Visual C++.

=====

a - Right click on project UnitTest, go to section Configuration Properties -> Debugging

b - Modify Command Arguments ,ex -Uaaa -Paaaaaa -CCIP_LX2_ORA_WLS -FW:\advisor\TA\23.0.0\triplea_core\TestFusion -- [fusion]

c - Ctrl+f5 => run the test in console mode.

6 - Issues

=====

The second parameter (description) is mandatory , AIX issue compilation

ex:

```
TEST_CASE("PosixMutex", "[lock]") {
    int t0 = callsomething()
    REQUIRE(t0 == 0);
SECTION("SECTION1", "mandatory desc")
{
    REQUIRE(Mytest() == 0);
}
}
```

From <https://bitbucket.temenos.com/projects/TWS/repos/ta/browse/triplea_core/arch/win/UnitTest>

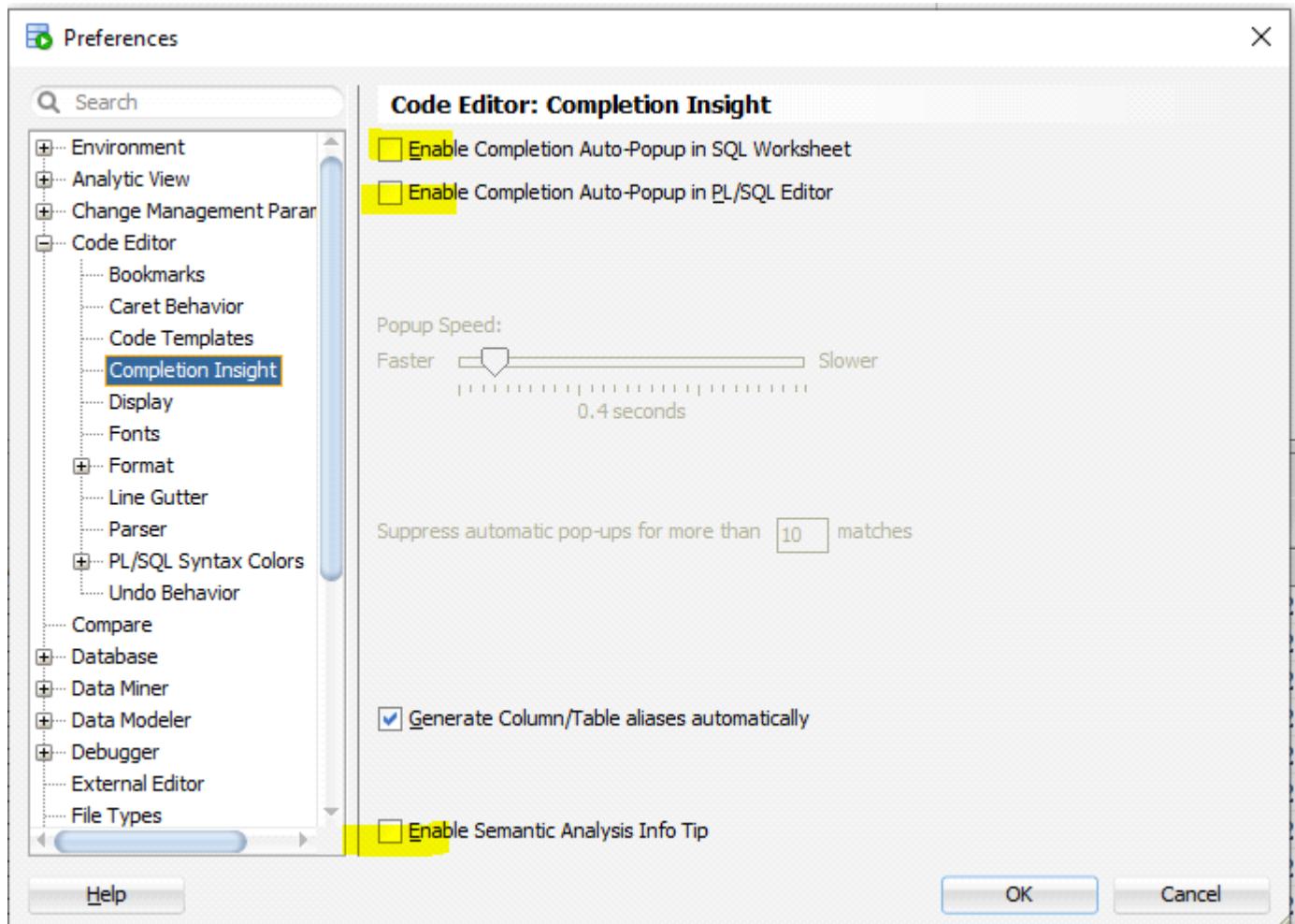
Launcher Commands

Monday, June 20, 2022 3:26 PM

```
Pid:0x00007533 Tid:0x7f35e3682180 Rolut:0x20002000
Message: Call to AAA OIcCall failed, ret code:-1073479654
[cabdpxt@x1111serv0521] /TST/BDPX/AAA/current/msg> /TST/BDPX/AAA/current/gwpack/scripts/GWPACK_Launcher.sh STOP && /TST/BDPX/AAA/current/gwpack/scripts/GWPACK_Launcher.sh RUN
AAAHOME is /TST/BDPX/AAA/1908
Attempting to shut down launcher on port 5015...
Launcher listening on port 5015 shutdown.
Please wait .
```

Sqldeveloper slowness

Thursday, June 16, 2022 12:54 PM



Linux System Administrator Details

Tuesday, October 19, 2021 10:03 PM

<https://linux.die.net/sag/>

<https://linux.die.net/man/1/>

<https://linux.die.net/man/2/>

Section 3: library functions - Linux man pages

RPC calls listings

<https://linux.die.net/man/3/>

<https://linux.die.net/man/4/>

<https://linux.die.net/man/5/>

Section 7: conventions and miscellany - Linux man pages

<https://linux.die.net/man/7/>

Legacy Document Links

Thursday, July 1, 2021 8:32 AM

<\\lausanshare\OldPublic\ADVANTAG\DOC\UsrDocR4\UsrDocR4.12\ProductDocR412\Manuals - Major developments Manuals>.
<\\lausanshare\OldPublic\ADVANTAG\Technical Documentation\Financial Functions - Technical workflow of C-functions>.

jbase code

Wednesday, July 7, 2021 12:45 PM

c/d/Laxmish Hegde/laxmishhegde/Perforce/perforce_1666

Nature managed entities - REF10778

Tuesday, July 13, 2021 11:28 PM

Added parameter USER_TYPE.

Modified procedure ins_appl_param_by_id in order to add special case for USER_TYPE parameter.

Modified sel_sh_appl_param_by_nat in order to add special case and surely missed TEXT_CONVERSION_TYPE management.

Modified message #20229 text.

Modified files :

- appl_param_dat.sql
- appl_param_p.sql
- syb_error_msg.sql

FIH 04/11/24

- Add new appl_param in C code
- Filter instrument attributes in function DBA_LimitMetaDictWithUserType.
- Add new field flafNature in ATTRIB_INFO fill it in fucntion DBA_GetDictEntityInfo and use it in quick search code.
- Modifiy fucntion FMT_PermitValTabFill : suppress some more nature.
- New fucntions :
 - FMT_IsEntityFilteredByUserType : list of entities filtered
 - FMT_TestDataWithUserType : test if one data has to be filtered
 - FMT_AddQuickSearchDefWithUserType : add some request in quick search definition
 - FMT_SuppressDataWithUserType : filter a table of data
- Use these fucntions in select screen and in FMT_DbaGetFkFromCode.

RAK 041209

Verify financial function

- no prob for bench storage because it's impossible to create PSP on the new nature of strat "composite"
- for check, reconcile, allocate order, add delete of this new nature

```
/* REF3314 - SSO - 990212: if allocate order or check strat, do not load recomm lists */
if ((GET_DICT(domainPtr, A_Domain_FctDictId) == DictFct_AllocateOrder)
    || (GET_DICT(domainPtr, A_Domain_FctDictId) == DictFct_CheckStrat)
/* REF3371 - RAK - 991221 */
    || (GET_DICT(domainPtr, A_Domain_FctDictId) == DictFct_PreTradeCheckStrat) ||
    (GET_DICT(domainPtr, A_Domain_FctDictId) == DictFct_OrderEntryAllocate))
{
    /* REF10778 - RAK - 041209 - Suppress new strategy nature 29 "composite" */
    /* which won't be treated in CheckStrat, Reconciliation, ... */
    DBA_SqlExec("delete from #dom_strat "
        "where nature_e = 3 or nature_e = 29",
        connectNo, DBA_SET_CONN);
}
else /* REF10778 - RAK - 041209 - for all cases */
{
    /* REF10778 - RAK - 041209 - Suppress new strategy nature 29 "composite" */
    /* which won't be treated in CheckStrat, Reconciliation, ... */
    DBA_SqlExec("delete from #dom_strat "
        "where nature_e = 29",
        connectNo, DBA_SET_CONN);
}
```

DDV - 041210 : Replace numeric values in query by enum (StratNat_RecomList and StratNat_Composite)

RAK 050106 - Found a crash server in case of one ptf of a list is linked with a composite strategy, skip stop of loading !

```
if (aStratFoundFlg == FALSE)
{
    /* REF10778 - RAK - 050106 - In case of Composite, no error and continue ! */
    if (GET_ENUM(stratLnkData[stratIdx], S_StratLnk_StratNatEn) == StratNat_Composite)
        continue;

    MSG_SendMesg(RET_DB_A_ERR_NODATA, 0, FILEINFO);
    DBA_MultiFree(data, outputStLst, dataRows, stLstNbr);
    DBA_FreeDynStTab(extStratLnkData, extStratLnkRows, ExtStratLnk);
    DBA_FreeDynStTab(stratLnkData, stratLnkRows, S_StratLnk);
    FREE(iOldTab);
    return(RET_DB_A_ERR_NODATA);
}
```

Oracle Patch Details & Queries

Monday, July 19, 2021 10:55 PM

1. To get the patch list at DB level :
 - a. Select * from dba_registry_sqlpatch;
2. To get the plug in violations:
 - a. select * from pdb_plug_in_violations;
3. SQLHC ->
 - a. Download sqlhc.zip, unzip in some folder, set environment variable for ORACLE_HOME and ORACLE_SID
 - b. Connect DB as sysdba
 - c. Identify the SQL ID which is giving issue.
 - d. SQL> START sqlhc.sql "T" SQL_ID
 - e. T -> is diagnostic pack license [T is option when Tuning and Diagnostic license is there]
4. SQLT Collection ->
 - a. Download SQLT.
 - b. Unzip sqlt_10g_11g_12c_18c_19c_5th_June_2020.zip
 - c. SQLPLAIN is user used for further execution of script, reset password for this user as per your standards.
 - d. GRANT INHERIT PRIVILEGES ON USER SYS TO SQLTXADMIN
 - e. \$ cd sqlt/install
 - f. \$ sqlplus / as sysdba
 - g. SQL> START sqrcreate.sql – provide info for Pluggable DBID, password for SQLPLAIN, default tablespace, TEMP Tablespace, License – T for tuning, D for Diagnostic, N for none.
 - h. Once done- cd sqlt/run
 - i. connect to database with user who is given SQLT_USER_ROLE
 - j. START sqltxtract.sql [SQL_ID]||[HASH_VALUE] [sqlxplain_password]
5. DB tracefile with 10046 trace inside
 - a. BEGIN
 - b. EXECUTE IMMEDIATE 'alter session set timed_statistics = true';
 - c. EXECUTE IMMEDIATE 'alter session set statistics_level=all';
 - d. EXECUTE IMMEDIATE 'alter session set MAX_DUMP_FILE_SIZE=UNLIMITED';
 - e. EXECUTE IMMEDIATE 'alter session set events "10046 trace name context forever, level 12"';
 - f. EXECUTE IMMEDIATE 'alter session set tracefile_identifier="trace_id_any_identifier"';
 - g. -- Put the query here
 - h. EXECUTE IMMEDIATE 'select sysdate from dual';
 - i. EXECUTE IMMEDIATE 'alter session set events "10046 trace name context off"';
 - j. END;
 - k. /
 - l. Trace file can be found at below location:
 - m. select VALUE from v\$diag_info where name='trace file id';
6. TKProf
 - a. Connect to AIX box with oracle user
 - b. \$ tkprof "output file from above trace" outputfile.prf
7. Explain Plan : already shared by Laxmish.
8. Remote Diagnostic Agent/Diagnostic Assistant bundle (RDA/DA)
 - a. Download RDA for Oracle. Transfer to AIX
 - b. Copy at ORACLE_HOME directory. Go to ORACLE_HOME directory.
 - c. Unzip RDA zip file at ORACLE_HOME.
 - d. cd rda. Run command from prompt: ./rda.pl -cv
 - e. Go to \$ORACLE_HOME/bin directory -> run ./adrci
 - f. IPS create package incident INCIDENT_NUMBER, this package needs to be shared.

Oracle Reference constraints queries

Wednesday, July 28, 2021 8:10 PM

<https://stackoverflow.com/questions/1729996/list-of-foreign-keys-and-the-tables-they-reference-in-oracle-db>

Oracle DB Hints and Stats

Wednesday, July 28, 2021 9:01 PM

Configure, Use, flush ,disable the result cache in Oracle

Result Cache is used as a buffer in SGA for keeping the most recent result of the queries when they fetch again by user then it return result directly from Result cache buffer area.

Check the Status of Result Cache

```
select dbms_result_cache.status() from dual;
DBMS_RESULT_CACHE.STATUS()
```

ENABLED

For Enable/using the RESULT CACHE

We need to set the following parameters. These will set the result cache buffer in Oracle.

```
RESULT_CACHE_MAX_SIZE=500M /* Megabytes
RESULT_CACHE_MAX_RESULT=20 /* Percentage
RESULT_CACHE_REMOTE_EXPIRATION=3600 /* Minutes
```

Parameter meaning

RESULT_CACHE_MAX_SIZE:memory allocated to the server result cache.

RESULT_CACHE_MAX_RESULT:maximum amount of memory a single result cache can use, in percentage (default is 5 percent)

RESULT_CACHE_REMOTE_EXPIRATION: By default, any result that involves remote objects is not cached. Thus, the default setting of the RESULT_CACHE_REMOTE_EXPIRATION parameter is 0.

You can, however, enable the caching of results involving remote objects by setting an explicit value for the RESULT_CACHE_REMOTE_EXPIRATION parameter

Disable the server result cache

We need to set the size parameter equal to zero.

```
RESULT_CACHE_MAX_SIZE=0
Alter system set RESULT_CACHE_MAX_SIZE=0 scope=both;
```

RESULT_CACHE_MODE

RESULT_CACHE_MODE initialization parameter to FORCE means the database caches all query results unless you specify the /*+ NO_RESULT_CACHE */ hint to exclude a query's results from the cache. The default and the recommended value of this parameter should be MANUAL, meaning that the database caches query results only if you use the appropriate query hint.

Change the parameter RESULT_CACHE_MODE

```
alter session set result_cache_mode=force;
alter session set result_cache_mode=MANUAL; -- Default
```

From <<https://smarttechways.com/2014/09/13/configure-use-flush-disable-the-result-cache-in-oracle/>>

```
select /*+ NO_RESULT_CACHE */ prod_id, SUM(amount_sold)
from sales
group by prod_id
order by prod_id;
Clear the result cache
```

execute dbms_result_cache.flush
Enable result cache of Table

```
ALTER TABLE sales RESULT_CACHE (MODE FORCE);
View memory usage stats of Result Cache
```

```
SET SERVEROUTPUT ON
EXECUTE DBMS_RESULT_CACHE.MEMORY_REPORT
```

From <<https://smarttechways.com/2014/09/13/configure-use-flush-disable-the-result-cache-in-oracle/>>

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```
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Change the parameter RESULT_CACHE_MODE

```
alter session set result_cache_mode=force;
alter session set result_cache_mode=MANUAL; -- Default
```

For Manual you can use the HINTS in the query:

```
-- For using result cache
select /*+ RESULT_CACHE */ department_id, AVG(salary)
from hr.employees
group by department_id;
```

From <<https://smarttechways.com/2014/09/13/configure-use-flush-disable-the-result-cache-in-oracle/>>

Check for the inactive stats for the tables

```
select * from dba_tab_statistics where stale_stats <> 'NO';
```

OWNER	TABLE_NAME	PARTITION_NAME	PARTITION_POSITION	SUBPARTITION_NAME	SUBPARTITION_POSITION	OBJECT_TYPE	NUM_ROWS	BLOCKS	EMPTY_BLOCKS	AVG_SPACE	CHAIN_CNT	AVG_ROW_LEN	AVG_SPACE_FREELIST_BLOCKS	NUM_FREELIST
1 SYS	USER\$	(null)	(null) (null)			(null) TABLE	296	15	0	0	0	249	0	0
2 SYS	TAB\$	(null)	(null) (null)			(null) TABLE	3005	3588	0	0	0	138	0	0
3 SYS	SEG\$	(null)	(null) (null)			(null) TABLE	3486	100	0	0	0	68	0	0
4 SYS	HISTGRNG	(null)	(null) (null)			(null) TABLE	69634	2569	0	0	0	33	0	0
5 SYS	HIST_HEAD\$	(null)	(null) (null)			(null) TABLE	55048	438	0	0	0	49	0	0
6 SYS	SMON_SCN_TIME	(null)	(null) (null)			(null) TABLE	108	28	0	0	0	1183	0	0
7 SYS	COL_USAGE\$	(null)	(null) (null)			(null) TABLE	6069	36	0	0	0	32	0	0
8 SYS	COL_GROUP_USAGE\$	(null)	(null) (null)			(null) TABLE	20	1	0	0	0	20	0	0
9 SYS	MON_MODS_ALL\$	(null)	(null) (null)			(null) TABLE	127	3	0	0	0	25	0	0
10 SYS	OPTSTAT_HIST_CONTROL\$	(null)	(null) (null)			(null) TABLE	39	1	0	0	0	42	0	0
11 SYS	OPT_FINDING\$	(null)	(null) (null)			(null) TABLE	103	5	0	0	0	41	0	0
12 SYS	OPT_FINDING_OBJ\$	(null)	(null) (null)			(null) TABLE	207	5	0	0	0	27	0	0
13 SYS	OPT_DIRECTIVE_OWN\$	(null)	(null) (null)			(null) TABLE	53	5	0	0	0	15	0	0
14 SYS	OPT_DIRECTIVE\$	(null)	(null) (null)			(null) TABLE	103	5	0	0	0	55	0	0
15 SYS	OPTSTAT_SNAPSHOT\$	(null)	(null) (null)			(null) TABLE	2169	12	0	0	0	29	0	0
16 SYS	EXP_HEAD\$	(null)	(null) (null)			(null) TABLE	7628	73	0	0	0	62	0	0
17 SYS	EXP_OBJ\$	(null)	(null) (null)			(null) TABLE	294	5	0	0	0	11	0	0
18 SYS	EXP_STAT\$	(null)	(null) (null)			(null) TABLE	4267	28	0	0	0	40	0	0
19 SYS	WRIG_SEGADV_CTRRLTAB	(null)	(null) (null)			(null) TABLE	16	5	0	0	0	37	0	0
20 SYS	WRIG_HEATMAP_TOP_OBJECTS	(null)	(null) (null)			(null) TABLE	18	5	0	0	0	81	0	0
21 SYS	WRIG_HEATMAP_TOP_TABLESPACES	(null)	(null) (null)			(null) TABLE	10	5	0	0	0	49	0	0
22 SYS	WRIG_TOPN_METADATA	(null)	(null) (null)			(null) TABLE	16	5	0	0	0	36	0	0
23 SYS	WRIG_ADV_TASKS	(null)	(null) (null)			(null) TABLE	7	5	0	0	0	139	0	0
24 SYS	WRIG_ADV_PARAMETERS	(null)	(null) (null)			(null) TABLE	222	5	0	0	0	35	0	0

Oracle Traces, parameters and alert logs

Saturday, July 31, 2021 11:50 AM

```
SQL>select * from v$parameter;

background_dump_dest      2      /oams/oracle/19.0/product/dbhome_1/rdbms/log    /oams/oracle/19.0/product/dbhome_1/rdbms/log    $ORACLE_BASE/admin/@/bdump      TRUE FALSE IMMEDIATE FALSE
TRUE FALSE FALSE TRUE FALSE Detached process dump directory      3665100166 3
user_dump_dest      2      /oams/oracle/19.0/product/dbhome_1/rdbms/log    /oams/oracle/19.0/product/dbhome_1/rdbms/log    $ORACLE_BASE/admin/@/udump      TRUE FALSE IMMEDIATE FALSE TRUE
FALSE FALSE TRUE FALSE User process dump directory      2332088509 3
core_dump_dest      2      /oams/oracle/19.0/diag/rdbms/tapdb/cdump    /oams/oracle/19.0/diag/rdbms/tapdb/cdump    $ORACLE_BASE/admin/@/cdump      TRUE FALSE IMMEDIATE FALSE TRUE
FALSE FALSE FALSE Core dump directory      18033226 3
audit_file_dest 2      /oams/oracle/19.0/admin/TAPDB/adump    /oams/oracle/19.0/admin/TAPDB/adump    $ORACLE_BASE/admin/@/adump      FALSE FALSE DEFERRED FALSE TRUE FALSE FALSE FALSE
FALSE Directory in which auditing files are to reside      2188534560 3

Sql_trace
3697 sql_trace      1      FALSE FALSE FALSE TRUE TRUE IMMEDIATE TRUE TRUE SYSTEM_MOD FALSE TRUE FALSE enable SQL trace      750089050 3
5115 tracefile_identifier      2      TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE trace file custom identifier      978134115 3
```

SQL_TRACE can also be enabled/disabled at the system/session by issuing the following SQL statement:

From <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=521643137622640&id=199081.1&displayIndex=3&_afrWindowMode=0&.adf.ctrl-state=s04na132t_157#aref_section310>

```
SQL> ALTER SYSTEM/SESSION SET SQL_TRACE = TRUE(FALSE);
```

In 11g and higher, sql_trace is also an event and can be set with event syntax:

```
SQL> oradebug doc event name sql_trace
```

```
sql_trace: event for sql trace

Usage
-----
sql_trace
  wait      < false | true >,
  bind      < false | true >,
  plan_stat < never | first_execution | all_executions | adaptive >,
  level     <ub4>
```

From <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=521643137622640&id=199081.1&displayIndex=3&_afrWindowMode=0&.adf.ctrl-state=s04na132t_157#aref_section310>

So you could use it as follows to enable SQL_TRACE requesting bind information:

```
alter session set events 'sql_trace bind=true';
or bind and wait information (notice comma separated):
alter session set events 'sql_trace bind=true, wait=true';
```

Further trace can be limited to a set of SQL_IDs if you include a filter for it. E.g.

```
alter session set events 'sql_trace [sql: sql_id=g3yc1js3g2689 | sql_id=7ujay4u33g337]bind=true, wait=true';
```

See "oradebug doc event" for the full event syntax:

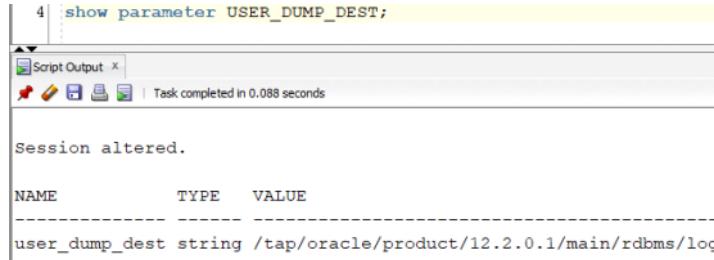
```
SQL> oradebug doc event
```

```
Event Help:
*****
```

From <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=521643137622640&id=199081.1&displayIndex=3&_afrWindowMode=0&.adf.ctrl-state=s04na132t_157#aref_section310>

Trace Files

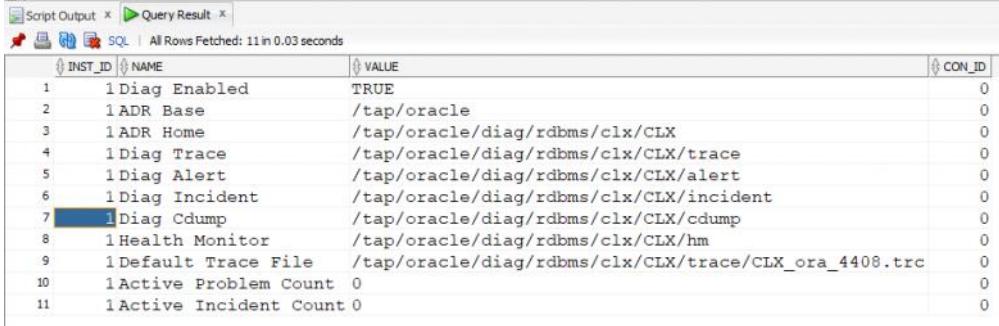
Oracle will generate trace (.trc) files for every session where the value of SQL_TRACE=TRUE and write them to the USER_DUMP_DEST destination. If tracing has been enabled for the instance then individual trace files will be generated for each session, unless otherwise disabled. Note that the generated files may be owned by an operating system user other than your own so the necessary privileges will need to be put in place before they can be formatted with TKProf.



The screenshot shows the Oracle SQL Developer interface. A script window titled 'Script Output' displays the command 'show parameter USER_DUMP_DEST;' followed by its output. The output shows the parameter 'user_dump_dest' is set to '/tap/oracle/product/12.2.0.1/main/rdbms/log'. The task completed in 0.088 seconds.

```
4 | show parameter USER_DUMP_DEST;
|
|-----|
| Script Output X |
| ↗ ↘ ↕ ↖ Task completed in 0.088 seconds |
|-----|
Session altered.

NAME          TYPE      VALUE
----- -----
user_dump_dest string   /tap/oracle/product/12.2.0.1/main/rdbms/log
```

6	<code>select * from v\$diag_info;</code>	
		
1	1 Diag Enabled	TRUE
2	1 ADR Base	/tap/oracle
3	1 ADR Home	/tap/oracle/diag/rdbms/clx/CLX
4	1 Diag Trace	/tap/oracle/diag/rdbms/clx/CLX/trace
5	1 Diag Alert	/tap/oracle/diag/rdbms/clx/CLX/alert
6	1 Diag Incident	/tap/oracle/diag/rdbms/clx/CLX/incident
7	1 Diag Cdump	/tap/oracle/diag/rdbms/clx/CLX/cdump
8	1 Health Monitor	/tap/oracle/diag/rdbms/clx/CLX/hm
9	1 Default Trace File	/tap/oracle/diag/rdbms/clx/CLX/trace/CLX_ora_4408.trc
10	1 Active Problem Count	0
11	1 Active Incident Count	0

TKProf

The TKProf facility accepts as input a SQL trace file and produces a formatted output file. For the full syntax of TKProf see the Oracle Server Tuning Manual. If TKProf is invoked with no arguments, an online help is displayed.

Basic Syntax of TKProf

```
TKPROF filename_source filename_output EXPLAIN=[username/password] SYS=[YES/NO] TABLE=[tablename]
```

filename_source	The trace file that needs to be formatted
filename_output	The output file where the formatted file will be written
'EXPLAIN'	This option causes TKProf to generate an execution plan for each SQL statement in the trace file as though it was been parsed at the time the TKProf is being run. TKProf connects as the user [username] and uses the EXPLAIN PLAN command to generate an execution plan for each traced SQL statement. These explain plans are written to the output file. Note that in later releases, the raw trace file automatically records the explain plan that was used at execution time and TKProf will automatically output this plan. If the EXPLAIN option is selected then two explain plans appear in the TKProf output. The first explain plan is the plan that was used at execution time. The second plan is the plan that was generated dynamically at the time the TKProf runs. If session settings etc have changed between the execution time and when the trace file is TKProffed then the first and second plans may differ.
'TABLE'	Specifies the schema and name of the table into which TKPROF temporarily places execution plans before writing them to the output file. If the specified table already exists, TKProf deletes its rows then uses it for the EXPLAIN PLAN command and then deletes its rows. If this table does not exist, TKProf creates, uses, then drops it. This parameter is ignored if the EXPLAIN parameter isn't used.
'SYS'	Enables and disables the listing of SQL statements issued by the user SYS (recursive SQL statements) into the output file. The default value is YES.

For more information on using TKProf see:

From <https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=521643137622640&id=199081.1&displayIndex=3&_afrWindowMode=0&_adf.ctrl-state=s04na132t_157#aref_section310>

For more information on using TKProf see:

[Document 199081.1 - SQL TRACE \(10046\), TKProf and Explain Plan - Overview Reference](#)

Was this document helpful?

Yes

No

Document Details

[Document 41634.1 TKProf Basic Overview](#)

[Document 29012.1 QREF: TKPROF Usage - Quick Reference](#)

[Document 760786.1 TKProf Interpretation \(9i and above\)](#)

[Document 214106.1 Using TKProf to compare actual and predicted row counts](#)



There is also extensive information in :

[Oracle® Database SQL Tuning Guide](#)

[12c Release 1 \(12.1\)](#)

[E15858-15](#)

[18.3 Understanding SQL Trace and TKPROF](#)

http://docs.oracle.com/cd/E16655_01/server.121/e15858/tsgql_trace.htm#TGSQ792

As an alternative to TKProf, Trace Analyzer (TRCANLZR) can be used. See:

[Document 224270.1 Trace Analyzer TRCANLZR - Interpreting Raw SQL Traces with Binds and/or Waits generated by EVENT 10046](#)

Type:

BULLETIN

Status:

PUBLISHED

Last Major Update:

Oct 24, 2019

Last Update:

Dec 15, 2020

Language:

Explain Plan

The Explain Plan command generates information that details the execution plan that will be used on a particular query. The use of the explain plan command itself has largely been superceded by tools such as SQLT. See:

[Document 215187.1 SQLT \(SQLPLAIN\) - Tool That Helps To Diagnose SQL Statements Performing Poorly](#)

But is still useful for looking at access paths for queries.

Note that the EXPLAIN PLAN statement displays execution plans chosen by the Oracle optimizer for SELECT, UPDATE, INSERT, and DELETE statements only.

For more details see:

[Oracle® Database SQL Tuning Guide](#)

[12c Release 1 \(12.1\)](#)

[E15858-15](#)

[Chapter 8 Generating and Displaying Execution Plans](#)

http://docs.oracle.com/cd/E16655_01/server.121/e15858/tsgql_genplan.htm#TGSQ271

The Explain plan command uses a precreated table (PLAN_TABLE) in the current schema to store information about the execution plan chosen by the optimizer.

Creating the Plan Table

The plan table is created using the script `utlxplan.sql`. This script is typically found under the Oracle Home in the rdbms/admin directory.

On Unix its location will be:

`$ORACLE_HOME/rdbms/admin`

On WindowsNT/2000:

`%ORACLE_HOME%\rdbms\admin`

This script creates the output table, called PLAN_TABLE, for holding the output of the Explain plan Command.

Note that the exact structure of the plan table can change with different release as new features are introduced.

Populating the Plan Table

The plan table is populated using the explain plan command:

`SQL> EXPLAIN PLAN for select * from emp where empno=1000;`

This command inserts the execution plan of the SQL statement into the plan table. It is also possible to add the name tag to the explain information by using the `set statement_id` clause.

Related Products

[Oracle Database - Standard Edition](#)

[Oracle Database - Enterprise Edition](#)

[Oracle Database - Personal Edition](#)

Information Centers

[19c Database Self-Guided Upgrade with Best Practices \[1919.2\]](#)

[Best Practices for Oracle Database Upgrade to 19c \[2690728.2\]](#)

[インフォメーション・センター: データベースおよび Enterprise Manager](#)

[日本語 ドキュメント \[1946305.2\]](#)

[Information Center: Overview Database Server/Client Installation and Upgrade/Migration \[1351022.2\]](#)

[Index of Oracle Database Information Centers \[1568043.2\]](#)

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Document References

[TKProf Interpretation \(9i and below\) \[32951.1\]](#)

[* How To Collect 10046 Trace \(SQL_TRACE\) Diagnostics for Performance Issues \[376442.1\]](#)

[AUTOTRACE Option in SQL*Plus \[43214.11\]](#)

[Interpreting Explain plan \[46234.11\]](#)

[Tracing Sessions in Oracle Using the DBMS_SUPPORT Package \[62160.11\]](#)

Show More

Recently Viewed

[Can Not See Output Or Wrong Output In Traces and Alert Log \[1330187.11\]](#)

Displaying the Execution Plan

Once the table has been populated, the explain information needs to be retrieved and formatted. There are a large number of scripts available to format the plan table data. Some of the most popular are noted below:

Supplied Scripts:

`$ORACLE_HOME/rdbms/admin/utlxpls.sql; script to format serial explain plans`
`$ORACLE_HOME/rdbms/admin/utlxplp.sql; script to format parallel explain plans`

Articles:

[Document 235530.1 How to Obtain a Formatted Explain Plan - Recommended Methods](#)

[Document 31101.1 Obtaining Formatted Explain Plan Output](#)

[Document 39294.1 Formatted Select of PLAN_TABLE for EXPLAIN PLAN command](#)

[Document 39341.1 Automatic Explain Plan](#)

[Document 1019631.6 SCRIPT: SCRIPT TO SIMPLIFY THE USE OF EXPLAIN PLAN](#)

Interpretation of Explain Plan

This is a complex topic and is covered in detail in the following article:

[Document 46234.1 Interpreting Explain Plan](#)

There is also extensive information in the:

[Oracle® Database SQL Tuning Guide](#)

[12c Release 1 \(12.1\)](#)

[E15858-15](#)

[Chapter 8 Generating and Displaying Execution Plans](#)

http://docs.oracle.com/cd/E16655_01/server.121/e15858/tsgenplan.htm#TGSOL271

Autotrace

The autotrace facility in SQL*Plus allows analysts to view the execution plan and some useful statistics for a SQL statement within a SQL*Plus session.

This option was introduced with 7.3 version of Oracle.

Autotrace needs to be initiated in the SQL*Plus session prior to executing the statement.

The Autotrace command is:

`SET AUTOTRACE [OPTIONS] [EXPLAIN/STATISTICS]`

For a detailed explanation of AUTOTRACE functions see:

[Document 43214.1 AUTOTRACE option in 7.3](#)

[Document 31101.1 SCRIPT: DIAG - Obtaining Formatted Explain Plan Output with Autotrace](#)

As with the EXPLAIN PLAN command, to obtain an execution plan the PLAN_TABLE must be created in the user's schema prior to autotracing.

Example

```
SQL> set autotrace traceonly explain
SQL> select * from dual;
Execution Plan -----
          0 SELECT STATEMENT Optimizer=CHOOSE 1 0 TABLE
          ACCESS (FULL) OF 'DUAL'
```

To enable viewing of STATISTICS data, the autotracing user must have access to dynamic performance tables. To achieve this, grant PLUTRACE role to the user. The PLUTRACE role is created by the `pluttrace.sql` script. On Unix the location is:

`$ORACLE_HOME/sqlplus/admin`

On WindowsNT/2000:

`%ORACLE_HOME%\sqlplus\admin`

This script must be run by the SYS user. A DBA user can then grant the role to the users who wish to use the the AUTOTRACE option. Refer to:

[Document 1055431.6 ORA-01919 Using AUTOTRACE in SQL*Plus](#)

Extensive reference information regarding the autotrace facility can be found in:

[SQL*Plus® User's Guide and Reference](#)

[Release 12.1](#)

[E18404-12](#)

[Chapter 8 Tuning SQL*Plus](#)

[Section: Controlling the Autotrace Report](#)

http://docs.oracle.com/cd/E16655_01/server.121/e18404/ch_eight.htm#SQPUG535

REFERENCES

[NOTE:32951.1 - TKProf Interpretation \(9i and below\)](#)

[NOTE:376442.1 - * How To Collect 10046 Trace \(SQL_TRACE\) Diagnostics for Performance Issues](#)

[NOTE:43214.1 - AUTOTRACE Option in SQL*Plus](#)

[NOTE:46234.1 - Interpreting Explain plan](#)

[NOTE:62160.1 - Tracing Sessions in Oracle Using the DBMS_SUPPORT Package](#)

[NOTE:760786.1 - TKProf Interpretation \(9i and above\)](#)

[NOTE:199081.1 - SQL TRACE \(10046\), TKProf and Explain Plan - Overview Reference](#)

[NOTE:39341.1 - SCRIPT: Automatic Explain plan](#)

[NOTE:1019631.6 - Script: Script to Simplify the Use of Explain Plan](#)

[NOTE:21154.1 - EVENT: 10046 "enable SQL statement tracing \(including binds/waits\)"](#)

[NOTE:215187.1 - All About the SQL Diagnostic Tool](#)

[NOTE:235530.1 - * How to Obtain a Formatted Explain Plan - Recommended Methods](#)

[NOTE:29012.1 - QREF: TKPROF Usage - Quick Reference](#)

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- [Oracle Database Products > Oracle Database Suite > Oracle Database > Oracle Database - Standard Edition > RDBMS > Generic SQL Performance, SQL Execution, Query Optimizer](#)
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Keywords

[AUTOTRACE;SQL TRACING;SQL TRACE;TRACE;TRACING TOOLS](#)

Errors

[ORA-1919](#)

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How to Obtain a Formatted Explain Plan - Recommended Methods (Doc ID 235530.1)

[Result_Cache Hint Is Not Being Enforced \[B74022.1\]](#)

[Bug 9044026 - ORA-16447 from ALTER SYSTEM FLUSH REDO \[9044026.8\]](#)

[How to Clear the Database Buffer Cache without Stopping Database \[190711.1\]](#)

[Bug 18356843 - Wrong results with outer joins and inner and outer filter predicates \[18356843.8\]](#)

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SQL TRACE (10046), TKProf and Explain Plan - Overview Reference (Doc ID 199081.1)

From <https://support.oracle.com/epmos/faces/SearchDocDisplay?_afrLoop=523029511598736#aref_section310>

Sybase installation locally - pcclient + ASE

14 February 2023 16:50

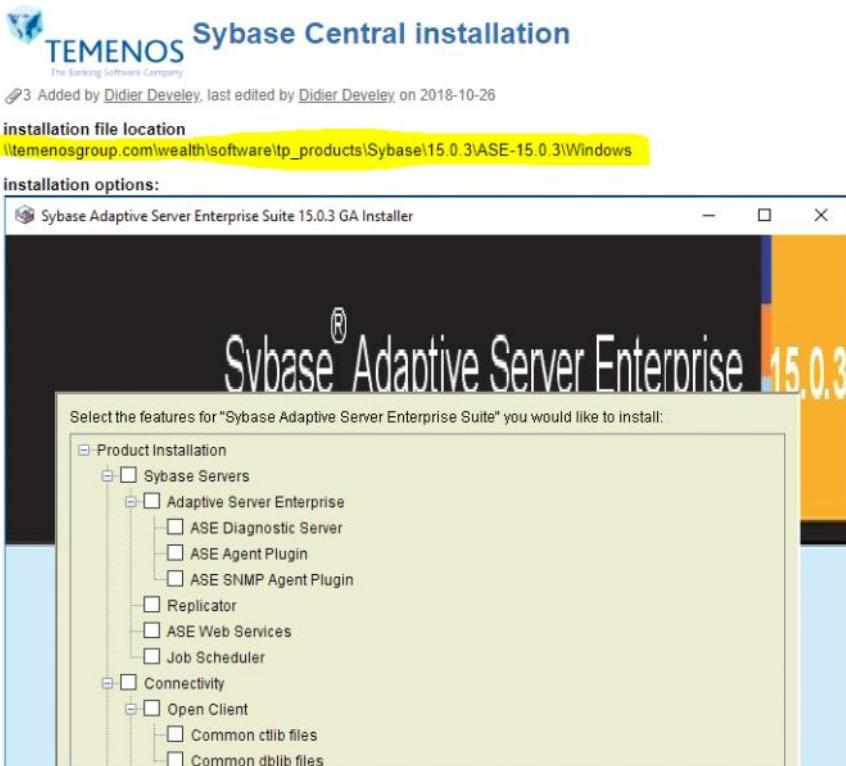
1. Use <https://lausvn.temenosgroup.com/svn-devel/internal/TAP-Core/Doc> How to install a local Sybase15.7-ASE.docx
2. Use <https://lausvn.temenosgroup.com/svn/pi/Inventory/licenses/Sybase/16/> for license link



pi - Revision 48996: /Inventory/licenses/Sybase/16

- [ASE_ACTIVE_MESSAGING2.lic](#)
- [ASE_COMPRESSION.lic](#)
- [ASE_EE_AR.lic](#)
- [ASE_ENCR_COLUMN.lic](#)
- [ASE_HA.lic](#)
- [ASE_PARTITIONS.lic](#)
- [ASE_SECDIR2.lic](#)
- [ASE_TSM.lic](#)
- [SY_IMDB.lic](#)

3. Use <http://wikiorg.temenosgroup.com>



Error 7205

Severity

18

Message text

Can't open a connection to site "%S_SRVID". See the error log file in the Adaptive Server boot directory.

Explanation

This error occurs when Adaptive Server is unable to execute a remote procedure call (RPC) on a remote Adaptive Server, Backup Server, or Open Server application.



In this write-up, "Server" is used to indicate an Adaptive Server, Backup Server, or Open Server application.

Action

To determine why this error occurred, perform the following steps:

1. Check whether the remote Server is running by issuing an **isql** statement similar to the following:

```
% isql -S <name_of_remote_server>
```

If you receive the following message, the remote Server may not be running.
CT-LIBRARY error:

```
ct_connect(): network packet layer: internal net library error: Net-Lib  
protocol driver call to connect two endpoints failed
```

Log in to the remote Server machine and check whether the Server is running. If the Server is not running, start it. Check whether you receive the following message after issuing the **isql** statement:
The context allocation routine failed when it tried to load localization files!!
One or more following problems may caused the failure:

Your sybase home directory is /export/home/Products/ase1502_64/ASE-15_0. Check the environment variable SYBASE if it is not the one.

Cannot access file /export/home/Products/ase1502_64/ASE-15_0/config/objectid.dat

An error occurred when attempting to allocate localization-related structures.

If you do, this indicates that your SYBASE environment variable is not set to the correct directory.

The value of the SYBASE parameter has to be set to specify the full path name of the SYBASE home directory where the *interfaces* (or *sql.ini*) file can be found. The value of the SYBASE parameter specifies the device as well as the path for SYBASE home. If you move the SYBASE directory structure to a new device, make sure the device is included in the SYBASE environment variable string.

2. Check the error log for both the sending Server and the receiving Server. If other errors exist, refer to the write-ups in this manual for information about recovering from them.

3. If, after resolving any problems found in steps 1 and 2, you still get error 7205, call Sybase Technical Support.

From <<https://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00729.1500/html/errMessageAdvRes/CACDHDCG.htm>>

Oracle validity of objects, re-compilation, utilities

Saturday, January 8, 2022 10:54 PM

```
select a.object_type,a.object_name,a.status,a.* from all_objects a;
```

To compile all the objects of the schema AAAMAINDB

```
exec dbms_utility.compile_schema( 'AAAMAINDB' )
```

From <https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11_QUESTION_ID:637156098168>

Compiling invalid objects

```
$ORACLE_HOME/rdbms/admin/utlrp.sql
```

```
SQL> r
```

```
 1 select owner, name, type, referenced_owner, referenced_name, referenced_type
 2 from (
 3 select *
 4 from dba_dependencies
 5 start with owner = 'MUECKNICK'
 6 and   name = 'AAM_E2'
 7 connect by PRIOR referenced_name = name
 8 and   PRIOR referenced_type = type
 9 and   PRIOR referenced_owner = owner
10 )
11 where owner not in ('SYS', 'PUBLIC')
12* and referenced_owner not in ('SYS', 'PUBLIC')
```

OWNER	NAME	TYPE	REFERENCED	REFERENCED_NAME	REFERENCED_TYPE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CUST_PROD_SERV_SEQ	SEQUENCE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	LOG_PROC_SEQ	SEQUENCE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	AAE2	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CUST	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CUST_PROD_SERV	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CUST_PROD_SERV_ATT	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	LOG_PROC_AAM_E2	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	PROD	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	PROD_SERV	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CPS	SYNONYM
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CPSA	SYNONYM
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	PS	SYNONYM
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CUST_PROD_SERV_VW1	VIEW
MUECKNICK	CUST_PROD_SERV_VW1	VIEW	MUECKNICK	CUST_PROD_SERV	TABLE
MUECKNICK	CUST_PROD_SERV_VW1	VIEW	MUECKNICK	PROD_SERV	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	CUST_PROD_SERV_VW5	VIEW
MUECKNICK	CUST_PROD_SERV_VW5	VIEW	MUECKNICK	CUST_PROD_SERV	TABLE
MUECKNICK	CUST_PROD_SERV_VW5	VIEW	MUECKNICK	CUST_PROD_SERV_ATT	TABLE
MUECKNICK	CUST_PROD_SERV_VW5	VIEW	MUECKNICK	PROD_SERV	TABLE
MUECKNICK	CUST_PROD_SERV_VW5	VIEW	MUECKNICK	PROD_SERV_ATTR	TABLE
MUECKNICK	CUST_PROD_SERV_VW5	VIEW	MUECKNICK	SERV_ATTR	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	BIE_TRANSFER_SEQ	SEQUENCE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	BIE_TRANSFER	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	PROD_SERV_VW3	VIEW
MUECKNICK	PROD_SERV_VW3	VIEW	MUECKNICK	PROD_SERV_ATTR	TABLE
MUECKNICK	PROD_SERV_VW3	VIEW	MUECKNICK	SERV_ATTR	TABLE
MUECKNICK	PROD_SERV_VW3	VIEW	MUECKNICK	PROD_SERV_VW2	VIEW
MUECKNICK	PROD_SERV_VW2	VIEW	MUECKNICK	PROD_SERV	TABLE
MUECKNICK	PROD_SERV_VW2	VIEW	MUECKNICK	PROD_SERV_VW1	VIEW
MUECKNICK	PROD_SERV_VW1	VIEW	MUECKNICK	PROD_SERV	TABLE
MUECKNICK	PROD_SERV_VW1	VIEW	MUECKNICK	PROD_SERV_ATTR	TABLE
MUECKNICK	PROD_SERV_VW1	VIEW	MUECKNICK	SERV_ATTR	TABLE
MUECKNICK	AAM_E2	PROCEDURE	MUECKNICK	DUAL	NON-EXISTE

=====

ops\$tkyte@ORA10G> alter procedure p compile;

Procedure altered.

```
ops$tkyte@ORA10G> select session_id sid, owner, name, type,
2      mode_held held, mode_requested request
3  from dba_ddl_locks
4 /
```

SID	OWNER	NAME	TYPE	HELD REQUEST
161	SYS	DBMS.Utility	Body	Null None
161	SYS	DBMS.Utility	Body	Null None
...				
161	SYS	DBMS_OUTPUT	Table/Procedure/Type	Null None

From <https://asktom.oracle.com/pls/apex/f?p=100:11:0::::P11_QUESTION_ID:637156098168>

=====

SQL> select substr(object_name,1,30) as obj_name, object_type

2 from user_objects

3 where status = 'INVALID';

TYP ABSS ACCT CLASS OBJ TYPE BODY

: V LSR SETA SUM VIEW

54 rows selected.

SQL> exec dbms_utility.compile_schema('CCAR',TRUE);

PL/SQL procedure successfully completed.

SQL> select substr(object_name,1,30) as obj_name, object_type

2 from user_objects

3 where status = 'INVALID';

TYP ABSS ACCT CLASS OBJ TYPE BODY

: V LSR SETA SUM VIEW

54 rows selected.

SQL> connect sys@ccar25 as sysdba

Enter password: *****

Connected.

SQL> exec utl_recomp.recomp_serial('CCAR');

PL/SQL procedure successfully completed.

SQL> select substr(object_name,1,30) as obj_name, object_type

2 from all_objects

3 where status = 'INVALID' and owner = 'CCAR';

no rows selected

Additional Scripts after vm creation - performance refactoring

28 November 2022 15:31

```
svn checkout "https://lausvn.temenosgroup.com/svn/devel/internal/TAP-Core/Tools/TAP\_install".
```

```
cd install_config/
```

```
export MY_TOOLS_DIR=/home/aaa/tools
```

```
./install.sh
```

```
cd new_perf_infra/
```

```
cd install/
```

```
cd 01-infra/
```

VM 64 GB RAM Machine Details

06 May 2023 15:16

Hi Laxmish,

Please find the VM details below:

Host name: BLR-TSTTAP01
Server IP: 10.94.5.210
you have admin access.

Regards,

AAASCIPTTRACE and MASK

21 May 2023 10:59

1. AAASCIPTTRACEMASK

If variable \$AAASCIPTTRACEMASK is set, the \$AAASCIPTTRACE is bypassed. The role of this variable is same that \$AAASCIPTTRACE but the value are a bit. Every bit activate one type of trace. There are 4 types of traces:

- DEPEND (value 1 (binary:00000001))
 - Used to trace DV dependencies and values modifications
- TIMER (value 2 (binary:00000010))
 - Used to analyse where time is spend in script engine
- EVAL (value 4 (binary:00000100))
 - Used to trace call to script engine
- EVALIN (value 8 (binary:00001000))
 - Same than EVAL with more detail on each script evaluation steps.

All these modes can be combining together, the array below defines all possible values, and which type of trace are active:

AAASCIPTTRACEMASK	EVALIN	EVAL	TIMER	DEPEND	Remark
0	No	No	No	No	No trace
1	No	No	No	Yes	Same than AAASCIPTTRACE=1
2	No	No	Yes	No	Same than AAASCIPTTRACE=3
3	No	No	Yes	Yes	Same than AAASCIPTTRACE=15
4	No	Yes	No	No	Same than AAASCIPTTRACE=2
5	No	Yes	No	Yes	
6	No	Yes	Yes	No	
7	No	Yes	Yes	Yes	
8	Yes	No	No	No	Almost like AAASCIPTTRACE=21 Same than 12
9	Yes	No	No	Yes	Same than 13
10	Yes	No	Yes	No	Same than 14
11	Yes	No	Yes	Yes	Same than 15
12	Yes	Yes	No	No	
13	Yes	Yes	No	Yes	
14	Yes	Yes	Yes	No	
15	Yes	Yes	Yes	Yes	Same than AAASCIPTTRACE=25

2. AAASCIPTTRACETHREAD

If \$AAASCIPTTRACETHREAD is set to a non null value, there are one trace script per financial function lunched. All this trace script are stored in the same directory created for one financial session server.

Example of Directory created :

\$MSGDIR/scripttrace_20111114140802

Files stored into this directory are named like :

scripttrace_000001_3ba3da0_02.jpp
scripttrace_000002_3ba3da0_02.jpp
scripttrace_001001_3ba3da0_02.jpp

format filename: scripttrace_xxxxxy_pppppp_ff.logname

xxx : if several financial function are launched in parallel xxx is the count number parallel.

yyy : incremental number each

ppppp : process number

Find which version of JDK class files compiled with

08 May 2023 22:07

```
D:\projects\hello>javap -verbose Test
Classfile /D:/projects/hello/Test.class
Last modified 16 Apr 2019; size 413 bytes
MD5 checksum 8679313dc0728e291898ad34656241cb
Compiled from "Test.java"
public class Test
    minor version: 0
    major version: 56
    flags: (0x0021) ACC_PUBLIC, ACC_SUPER
        this_class: #5                         // Test
        super_class: #6                         // java/lang/Object
        interfaces: 0, fields: 0, methods: 2, attributes: 1
Constant pool:
    #1 = Methodref           #6.#15          // java/lang/Object."<init>":()V
    #2 = Fieldref            #16.#17          // java/lang/System.out:Ljava/io/
    #3 = String              #18              // Hello World
```

Find the major version of the Java class file, and we will know which JDK version compiled the Java class. Below are some popular Java LTS released and their major version numbers.

Java SE	Major Version	Hex
17	61	0x3D
11	55	0x37
8	52	0x34

If the major version of the Java class file is 55, it means Java 11 compiled the class. Review this [table](#) for a complete list of major versions of the Java class file.

Java SE	Major Version	Hex
18	62	0x3E
17	61	0x3D
16	60	0x3C
15	59	0x3B
14	58	0x3A
13	57	0x39
12	56	0x38
11	55	0x37
10	54	0x36
9	53	0x35
8	52	0x34
7	51	0x33
6.0	50	0x32
5.0	49	0x31
1.4	48	0x30
1.3	47	0x2F
1.2	46	0x2E
1.1	45	0x2D

Oracle - Cursor and execute immediate query

01 November 2022 13:06

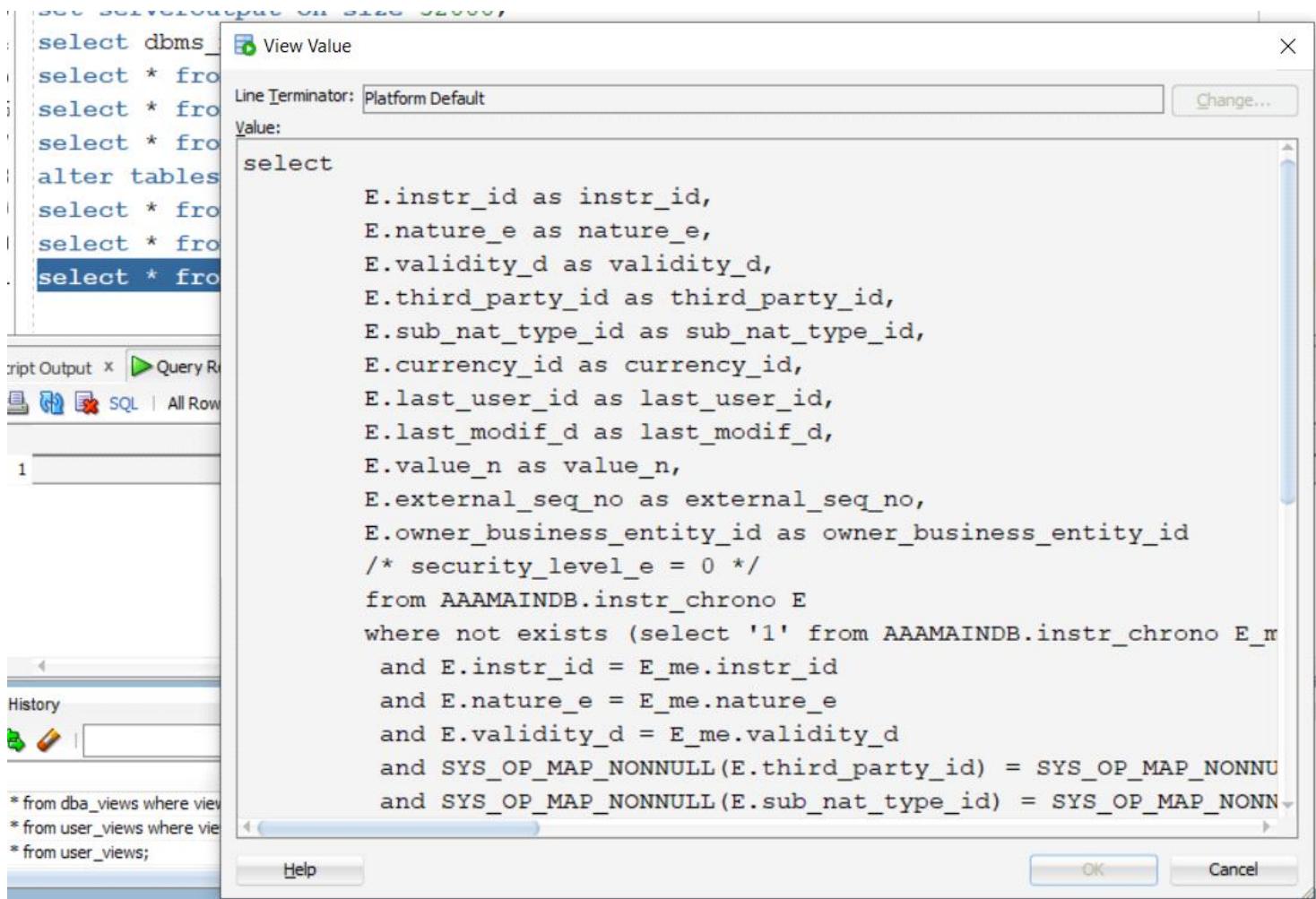
```
declare
cursor tt is
select table_name from all_tables where owner='TEMPTSldb' and rownum<10;
v_tbl varchar2(50);
begin
for v_tbl in tt
loop
execute immediate ('drop table temptslbd.'||v_tbl.table_name);
end loop;
end;
/
```

From <<https://teams.microsoft.com/multi-window/?agent=electron&version=22101406300>>

Oracle: Getting the view source code and generating DDL

16 February 2024 13:27

```
SQL> select * from dba_views where view_name='INSTR_CHRONO_ME';
```



```
SQL> set serveroutput on size 32000;
SQL> select dbms_metadata.get_ddl('VIEW','INSTR_CHRONO_ME','AAAMAINDB') from dual;
```

Thursday, August 12, 2021 11:03 PM

Windows Repair

C:\WINDOWS\system32>sfc /scannow

Beginning system scan. This process will take some time.

Beginning verification phase of system scan.

Verification 100% complete.

Windows Resource Protection found corrupt files and successfully repaired them.
For online repairs, details are included in the CBS log file located at
windir\Logs\CMS\CMS.log. For example C:\Windows\Logs\CMS\CMS.log. For offline
repairs, details are included in the log file provided by the /OFFLOGFILE flag.

C:\WINDOWS\system32>

Code coverage utility on Linux

14 March 2025 14:53

The `-fprofile-arcs` option in GCC (GNU Compiler Collection) is used to enable the generation of code coverage data during the compilation of a program. This is part of the process of enabling "test coverage" or "code coverage" analysis, which helps developers understand which parts of the code are executed during testing.

Here's how `-fprofile-arcs` works and how you can use it on Linux:

Key Options Related to Coverage in GCC:

1. **`-fprofile-arcs`:** This option enables the generation of additional instrumentation code that records which parts of the code are executed. It generates `.gcda` files at runtime, which contain the coverage data.
2. **`-fprofile-arcs`:** This option is often used in combination with `-fprofile-arcs`. It inserts instrumentation that allows the collection of coverage information during the program's execution.
3. **`-g`:** This option adds debugging information to the binary, which is important for generating more detailed reports.
4. **`-coverage`:** This is a shorthand for enabling both `-fprofile-arcs` and `-fprofile-arcs` options together.

Steps for Using `-fprofile-arcs`:

1. **Compile the Program with Coverage Options:** Use the following command to compile your program and enable coverage instrumentation.

```
gcc -fprofile-arcs -fprofile-arcs -g -o my_program my_program.c
```

This tells GCC to:

- o Instrument the program for coverage (`-fprofile-arcs` and `-fprofile-arcs`),
- o Include debugging information (`-g`),
- o Output the executable as `my_program`.

2. **Run the Program:** Execute the program as you would normally. During the execution, it generates coverage data and stores it in `.gcda` files.

```
/my_program
```

After the program runs, `.gcda` files will be created in the same directory as the source files (or where the executable is located).

3. **Generate the Coverage Report:** You can use the `gcov` tool to analyze the generated coverage data. For example:

```
gcov my_program.c
```

This will generate a `.gcov` file with detailed coverage information, showing which lines of code were executed.

4. **Clean Up:** After you've collected the coverage data, you might want to delete the generated `.gcda` and `.gcno` files to clean up the project directory.

```
rm *.gcda *.gcno
```

Example:

Let's assume you have a simple `my_program.c` file:

```
#include <stdio.h>

void test_function(int x) {
    if (x > 0)
        printf("Positive\n");
    else
        printf("Non-positive\n");
}

int main() {
    test_function(10);
    test_function(-5);
    return 0;
}
```

1. Compile the program:
`gcc -fprofile-arcs -fprofile-arcs -g -o my_program my_program.c`

2. Run the program:
`/my_program`

3. Generate the coverage report:

```
gcov my_program.c
```

The output will look something like this:

```
File 'my_program.c'
Lines executed:100.00% of 8
Creating 'my_program.c.gcov'
This shows that all lines in the program were executed, and the .gcov file will have detailed line-by-line execution data.
```

Summary:

- `-fprofile-arcs` in GCC is used to generate coverage data.
- You need to use `-fprofile-arcs` alongside `-fprofile-arcs` for coverage collection.
- After running the program, you can use `gcov` to generate a coverage report.

Password encryption from client to finserver

11 March 2025 11:13

[PMSTA-25155] GUI password is transmitted in clear text to data/fin server even if system parameter ENCRYPTION_LEVEL is enabled - Odyssey's R&D Tracking Board

- Restore functionality as described in "Design Solutions". Plan an improvement in a future release to support encrypted password from our java applications to financial servers communication.
- Technical - Problem Description:

lau1=20329 - REF8845 - TA4.10.alpha0

Implemented password encryption support when communicating with our financial servers.

lau1=175503 - PMSTA-16010 - RPC eval entity of triple'a core doesn't control the validity of the password

Break compatibility with encrypted password...

lau1=183362 - PMSTA-18094 - Avoid extracting the user credentials from the GUI running on Windows (via dump, etc.)

Broken support for encrypted password detected. Chosen solution were to remove the code performing encryption.

- Technical - Design Solutions:

Implement back support for encrypted password, taking into account [PMSTA-16010](#), [PMSTA-18094](#).

This will first require to found a way to differentiate client using our encryption (aaa_gui, aaa_imp, aaa_srv, aaa_subd, aaa_audit, ...) from those that does not use it (isql, dbisql, jconnect, ...).

When such a way have been found, I estimate 2 md the time required to restore back password encryption from TAP clients. I suggest to plan 3 md for the tests.

This will still left communication of unencrypted password between our java applications and financial servers. (This have never been covered)

From <<http://rd.temenosgroup.com/browse/PMSTA-25155>>

Fusion debugging in local server

07 March 2025 10:10

```
export AAAFUSDEBUGPTFID=<Portfolio Id> #not portfolio code
```

Commit id = <https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/d22b02cb8f37797f325c56f47b14785deba7bea8>

In CMake, if both a shared library (.so, .dll, .dylib) and a static archive library (.a, .lib) are present in the same directory, CMake often prefers linking against the shared library by default. However, if you want to force linking against the static archive library, you can follow these strategies:

1. Use TARGET_LINK_LIBRARIES with STATIC Mode (CMake 3.13+)

If you are linking against a CMake target, you can explicitly request the static library:

```
cmake
CopyEdit
target_link_libraries(MyExecutable PRIVATE MyStaticLib)
If the library is defined using add_library() with STATIC and SHARED variants, CMake will respect the static one.
```

2. Specify Full Path to the Static Library

If CMake is not handling the library as a target, you can manually specify the full path to the static.a or .lib file:

```
cmake
CopyEdit
target_link_libraries(MyExecutable PRIVATE /path/to/libmylibrary.a)
This ensures that the static version is linked instead of the shared one.
```

3. Use CMAKE_FIND_LIBRARY_SUFFIXES to Prioritize Static Libraries

If using find_library() to locate the library, you can force CMake to prefer static libraries over shared ones:

```
cmake
CopyEdit
set(CMAKE_FIND_LIBRARY_SUFFIXES .a .lib)
find_library(MYLIB NAMES mylibrary PATHS /path/to/libs)
target_link_libraries(MyExecutable PRIVATE ${MYLIB})
This will prioritize libmylibrary.a over libmylibrary.so.
```

4. Use -static Linker Flag (for GCC/Clang)

For targets compiled with GCC or Clang, you can enforce static linking using the -static linker flag:

```
c
CopyEdit
set(CMAKE_EXE_LINKER_FLAGS "-static")
target_link_libraries(MyExecutable PRIVATE mylibrary)
However, this might force all libraries to be linked statically, which may not be desirable.
```

5. Use IMPORTED Targets for Static Library

If using find_library(), you can define an IMPORTED target for the static library:

```
cmake
CopyEdit
add_library(MyLibrary STATIC IMPORTED)
set_target_properties(MyLibrary PROPERTIES IMPORTED_LOCATION /path/to/libmylibrary.a)
target_link_libraries(MyExecutable PRIVATE MyLibrary)
```

In CMake, you can link an archive (static) library using target_link_libraries(). The method depends on whether the archive library is built within the same project or if it's an external prebuilt library.

1. If the archive library is built within the same project

If you have a static library target in CMake, you can link it to another target like this:

```
c
CopyEdit
add_library(my_static_lib STATIC mylib.cpp)
target_link_libraries(my_executable PRIVATE my_static_lib)
CMake will automatically locate and link the static library to my_executable.
```

2. If the archive library is an external prebuilt .a file

If you have a precompiled .a archive file, you should specify its full path in target_link_libraries():

```
cmake
CopyEdit
target_link_libraries(my_executable PRIVATE /path/to/libmylib.a)
Alternatively, you can use find_library():
```

```
cmake
CopyEdit
find_library(MYLIB_PATH NAMES mylib PATHS /path/to/lib)
target_link_libraries(my_executable PRIVATE ${MYLIB_PATH})
```

3. If the archive library is installed system-wide

If the library is in a standard system location like /usr/lib or /usr/local/lib, you can link it using target_link_libraries() with -l:

```
cmake
CopyEdit
target_link_libraries(my_executable PRIVATE -lmylib)
Make sure the library search paths are correctly set using:
```

```
cmake
CopyEdit
link_directories(/usr/local/lib)
```

4. Using CMake's IMPORTED Targets (Recommended for External Libraries)

A more modern approach is to declare an `imported` library:

```
cmake
CopyEdit
add_library(MyLib STATIC IMPORTED)
set_target_properties(MyLib PROPERTIES IMPORTED_LOCATION /path/to/libmylib.a)
target_link_libraries(my_executable PRIVATE MyLib)
```

Commonly used cmake keywords & properties

04 March 2025 22:18

set_source_files_properties is a CMake command that allows you to set properties for specific source files in your project.

Syntax

```
cmake
CopyEdit
set_source_files_properties(<file1> [<file2> ...]
    PROPERTIES <prop1> <value1>
               <prop2> <value2> ...)
• <file1>, <file2>, ... → List of source files for which the properties should be set.
• PROPERTIES → Indicates that the following key-value pairs define properties to be set.
```

Example Usage

1. Set Compiler Flags for a Specific File

```
cmake
CopyEdit
set_source_files_properties(myfile.cpp PROPERTIES COMPILE_FLAGS "-Wall -Wextra")
This applies -Wall -Wextra compiler flags only to myfile.cpp.
```

2. Specify Language Standard for a File

```
cmake
CopyEdit
set_source_files_properties(myfile.cpp PROPERTIES CXX_STANDARD 17)
Forces myfile.cpp to be compiled with C++17.
```

3. Mark a File as Generated

```
cmake
CopyEdit
set_source_files_properties(generated_file.cpp PROPERTIES GENERATED TRUE)
Marks generated_file.cpp as a file that is created during the build process.
```

4. Disable Clang-Tidy for a File

```
cmake
CopyEdit
set_source_files_properties(myfile.cpp PROPERTIES SKIP_LINTING TRUE)
Disables static analysis for myfile.cpp.
```

Common Properties

Property	Description
COMPILE_FLAGS	Extra compiler flags for the specific file
COMPILE_DEFINITIONS	Preprocessor definitions for the file
COMPILE_OPTIONS	Compiler options (similar to COMPILE_FLAGS)
C_STANDARD	C standard for the file (90, 99, 11, etc.)

CXX_STANDARD	C++ standard for the file (98, 11, 14, 17, 20, etc.)
GENERATED	Marks file as generated during build
HEADER_FILE_ONLY	Marks file as a header-only file (won't be compiled)
SKIP_LINTING	Skips static analysis tools like Clang-Tidy

Notes

- The source files must be part of a target (e.g., add_executable or add_library) for the properties to take effect.
- Some properties, like COMPILE_OPTIONS, are preferred over older properties like COMPILE_FLAGS.

ORA-14411 - TRUNC_DOM_POS The DDL cannot be run concurrently with other DDLs

04 March 2025 17:40

```
-----  
DATE      : 2022/08/17 02:44:45.510257  
VERSION   : R28.3.0 2022-Aug-16 20:23:36 (LIN64 Debug) d2700f5  
TYPE      : DBA          OSERVER INFO : CIP_LX_ORA_VAL_S1 THREAD : c - pid#6885-tid#20407 USER : tasc RPC : fin_analysis_by_id  
USER      : aaa  
SYS LOGIN : aaa          HOSTNAME : laulxcmt2.temenosgroup.com  
FILE      : oralib/src/orastatm.c LINE : 1279  
MESSAGE   : Statement execute error (OCI_ERROR):  
begin  
trunc_dom_position();trunc_dom_pos();trunc_dom_instr();trunc_dom_port();trunc_obj_id();trunc_vector_id();  
end;  
--- DB Message :  
ORA-14411: The DDL cannot be run concurrently with other DDLs  
ORA-06512: at "AAAMAINDB.TRUNC_DOM_POS", line 11  
ORA-06512: at line 3
```

From <<http://rd.temenosgroup.com/browse/PMSTA-50205>>

Bug 27935464 ORA-14411 When Tuncate Indexed Global Temporary Table Concurrently

This note gives a brief overview of bug 27935464.

The content was last updated on: 19-APR-2022

Click here for details of each of the sections below.

Affects:

Product (Component) Oracle Server (Rdbms)

Range of versions believed to be affected Versions >= 18.1.0

Versions confirmed as being affected

18.3.0

Platforms affected Generic (all / most platforms affected)

Fixed:

The fix for 27935464 is first included in

20.1.0

19.5.0.0.191015 (Oct 2019) Database Release Update (DB RU)

18.18.0.0.DBRU:220219 (FEB 2022) Database Release Update (DB RU)

18.10.0.0.200414 (Apr 2020) Database Release Update (DB RU)

12.1.0.2.200414 (Apr 2020) Bundle Patch for Windows Platforms

From <<http://rd.temenosgroup.com/browse/PMSTA-50205>>

building gdb package

03 March 2025 22:42

Oracle: Parameters passed, values to stored procedure execution

03 March 2025 12:37

In Oracle 19c, you can retrieve the parameters passed to a stored procedure or function and inspect their values using the following methods:

1 Get Parameter Details of a Stored Procedure or Function

You can query the ALL_ARGUMENTS or USER_ARGUMENTS dictionary views to get details of the parameters (name, type, mode, etc.) of a stored procedure or function.

```
sql
CopyEdit
SELECT OBJECT_NAME, PACKAGE_NAME, ARGUMENT_NAME, POSITION, DATA_TYPE, IN_OUT
FROM ALL_ARGUMENTS
WHERE OWNER = 'YOUR_SCHEMA'
AND OBJECT_NAME = 'YOUR_PROCEDURE_NAME'
ORDER BY POSITION;


- OBJECT_NAME → Procedure or function name
- PACKAGE_NAME → If part of a package, shows the package name
- ARGUMENT_NAME → Name of the parameter
- POSITION → Position of the argument in the parameter list
- DATA_TYPE → Data type of the parameter
- IN_OUT → Specifies whether the parameter is IN, OUT, or IN OUT

```

2 Get Values Passed to a Stored Procedure (During Execution)

Oracle does not maintain a built-in log of parameter values passed during procedure execution. However, you can track them by:

◆ Using DBMS_OUTPUT

Modify the stored procedure to print out parameter values using DBMS_OUTPUT.PUT_LINE:

```
pl
CopyEdit
CREATE OR REPLACE PROCEDURE my_procedure(p_param1 IN VARCHAR2, p_param2 IN NUMBER) IS
BEGIN
    DBMS_OUTPUT.PUT_LINE('p_param1 = ' || p_param1);
    DBMS_OUTPUT.PUT_LINE('p_param2 = ' || p_param2);
END;
```

Then enable output in SQL*Plus or SQL Developer:

```
sql
CopyEdit
SET SERVEROUTPUT ON;
EXEC my_procedure('Test', 100);
```

◆ Using a Logging Table

A more persistent approach is to store parameter values in a log table:

```
sql
CopyEdit
CREATE TABLE procedure_log (
    log_time TIMESTAMP DEFAULT SYSTIMESTAMP,
    procedure_name VARCHAR2(100),
    param_name VARCHAR2(100),
    param_value VARCHAR2(4000)
);
```

Modify the procedure to log values:

```
pl
CopyEdit
CREATE OR REPLACE PROCEDURE my_procedure(p_param1 IN VARCHAR2, p_param2 IN NUMBER) IS
BEGIN
    INSERT INTO procedure_log (procedure_name, param_name, param_value)
        VALUES ('my_procedure', 'p_param1', p_param1);
    INSERT INTO procedure_log (procedure_name, param_name, param_value)
        VALUES ('my_procedure', 'p_param2', p_param2);
    COMMIT;
END;
```

Then query:

```
sql
CopyEdit
```

```
SELECT * FROM procedure_log;
```

◆ Using Tracing (DBMS_MONITOR or DBMS_SESSION)

You can enable tracing to capture procedure execution details:

```
sql  
CopyEdit  
EXEC DBMS_MONITOR.SESSION_TRACE_ENABLE(waits => TRUE, binds => TRUE);  
After executing the procedure, disable tracing:
```

```
sql  
CopyEdit  
EXEC DBMS_MONITOR.SESSION_TRACE_DISABLE;  
Then, analyze the trace file using tkprof.
```

Oracle: Recently executed SQL queries

03 March 2025 12:24

In Oracle Database 19c, you can get details of executed SQL queries using various methods, depending on whether you need historical execution data or real-time monitoring. Here are some common approaches:

1. Using V\$SQL to Get Recently Executed Queries

Oracle stores SQL statements in the shared SQL area, which you can query using V\$SQL or V\$SQLAREA.

```
SELECT sql_id, sql_text, executions, elapsed_time/1000000 AS elapsed_seconds
FROM v$sql
WHERE sql_text NOT LIKE '%v$sql%'
ORDER BY last_active_time DESC;


- SQL_ID: Unique identifier for the SQL statement.
- EXECUTIONS: Number of times the query was executed.
- ELAPSED_TIME: Total elapsed time in microseconds.

```

2. Using V\$SESSION and V\$SQL to Get Currently Running Queries

To find queries that are currently running:

```
SELECT s.sid, s.serial#, s.username, q.sql_text, s.status, s.osuser
FROM v$session s
JOIN v$sql q ON s.sql_id = q.sql_id
WHERE s.status = 'ACTIVE';


- Shows active sessions and their currently executing SQL.

```

3. Using V\$ACTIVE_SESSION_HISTORY (ASH) for Recent Query History

ASH provides a sampled history of recent SQL queries.

```
SELECT sample_time, sql_id, sql_text
FROM v$active_session_history
JOIN v$sql USING (sql_id)
WHERE sample_time > SYSDATE - INTERVAL '10' MINUTE;


- Good for short-term query performance analysis.

```

4. Using DBA_HIST_SQLTEXT for Historical Queries

If you have AWR (Automatic Workload Repository) enabled, you can find historical SQL queries.

```
SELECT sql_id, sql_text
FROM dba_hist_sqltext
WHERE sql_text LIKE '%your_table%'
ORDER BY last_active_time DESC;
```

5. Using Auditing for SQL Query Tracking

If auditing is enabled, you can check executed SQL statements:

```
SELECT timestamp, sql_text, userhost, username
FROM dba_audit_trail
WHERE sql_text IS NOT NULL
ORDER BY timestamp DESC;
```

6. Using Enterprise Manager (OEM)

If you have Oracle Enterprise Manager (OEM), you can use the SQL Monitor feature to see real-time and historical execution details.

◆ Which One to Use?

- For currently running queries → V\$SESSION and V\$SQL
- For recent history (last few minutes) → V\$ACTIVE_SESSION_HISTORY
- For longer history (requires AWR) → DBA_HIST_SQLTEXT
- For auditing purposes → DBA_AUDIT_TRAIL

Process (pid) printing the long list without truncating binary path and arguments

01 March 2025 11:31

```
/users/ie/val->\ps -efl|grep launcher
342001 A val 42008864 1 0 60 20 a0592f590 51864 * 16:57:47 - 0:01 /oams/v_syb_aix_1/itx.10.1.1.1/java/bin/java -DINSTALLDIR=/oams/v_syb_aix_1/itx.10.1.1.1/libs
com.ibm.websphere.dtx.launcher.core.EventServerManager
342001 A val 55640500 1 0 60 20 84de4a590 53512 * 18:19:17 - 0:02 /oams/v_syb_aix_1/itx/java/bin/java -DINSTALLDIR=/oams/v_syb_aix_1/itx/libs com.ibm.websphere.dtx.launcher.core.EventServerManager
[242001 A val 3080946 55640500 2 60 20 a2da2c590 55428 * 18:19:18 - 1:41 /oams/v_syb_aix_1/itx/bin/launcher /oams/v_syb_aix_1/gwpack/systems/GWPACK_HouseKeeping.msl /oams/v_syb_aix_1/gwpack/systems/GWPACK_Position.msl -s7000,7001,7002 -d=/oams/v_syb_aix_1/itx/logs/CompoundSystem-2025-02-28-18-19-18 [aulpar06.log] -L=/oams/v_syb_aix_1/itx/logs/CompoundSystem-2025-02-28-18-19-18 [aulpar06.txt]
200001 A val 7930494 50725240 0 60 20 abd1a5480 244 07:02:01 pts/5 0:00 grep launcher
/users/ie/val->
```

Launcher configuration update - export to xml and import

26 February 2025 17:24

```
?xml version="1.0" encoding="UTF-8"?>
<model:EventServerAdmin xmlns:model="http://www.ibm.com/websphere/dtx/launcher/model" Version="1.0">
  <ListeningPort>5015</ListeningPort>
  <StartPort>7000</StartPort>
  <EndPort>8000</EndPort>
  <AutomaticInitialStart>true</AutomaticInitialStart>
  <ProcessPerSystem>false</ProcessPerSystem>
  <AutomaticSystemDetection>false</AutomaticSystemDetection>
  <DeploymentDirectories>
    <Directory>/oams/v_syb_aix_1/itx/GWPACK_HOME/systems</Directory>
    <Directory>/oams/v_syb_aix_1/gwpack/systems</Directory>
  </DeploymentDirectories>
  <ConfigurationFile></ConfigurationFile>
  <FirewallInfo Enabled="false">
    <ServerPort>4634</ServerPort>
    <ClientPort>4635</ClientPort>
  </FirewallInfo>
  <RestartInfo Enabled="true">
    <RetryAttempts>2</RetryAttempts>
    <RetryTimeout>10</RetryTimeout>
  </RestartInfo>
  <InitializationFile></InitializationFile>
</model:EventServerAdmin>
```

```
val@laulpar06:/oams/v_syb_aix_1/itx/bin$ ./launcheradmin.sh -export test1.xml
=====
IBM Utility : launcheradmin (Launcher Administration command line utility)
Version : 9.0.0.3(21)
StartTime : Wed Feb 26 12:54:04 CET 2025

The new settings have been saved successfully.
```

```
=====
val@laulpar06:/oams/v_syb_aix_1/itx/bin$ vi test1.xml
-iw-iw-r-- i val ie 1155 Feb 26 12:14 toto.xml
val@laulpar06:/oams/v_syb_aix_1/itx/bin$ ./launcheradmin.sh -export test1.xml
=====
IBM Utility : launcheradmin (Launcher Administration command line utility)
Version : 9.0.0.3(21)
StartTime : Wed Feb 26 12:54:04 CET 2025

The new settings have been saved successfully.
```

```
=====
val@laulpar06:/oams/v_syb_aix_1/itx/bin$ vi test1.xml
val@laulpar06:/oams/v_syb_aix_1/itx/bin$ ./launcheradmin.sh -import test1.xml
```

TTMakr64.exe type tree maker - usage

26 February 2025 00:08

The **Type Tree Maker (TTMakr64.exe)** tool in **IBM Transformation Extender (ITX) 10.1.1** is used to generate type trees from various sources, such as COBOL copybooks, XML schemas, DDLs, or other structured data formats.

Syntax for TTMakr64.exe

The basic syntax for running **TTMakr64.exe** is:

```
css
CopyEdit
TTMakr64.exe -i <input_file> -o <output_tree> [options]
```

Common Parameters

Parameter	Description
-i <input_file>	Specifies the input file (copybook, schema, DDL, etc.).
-o <output_tree>	Specifies the output type tree file (.mtt).
-t <type>	Specifies the input type (e.g., cobol, xml, json, ddl).
-n <node>	Specifies the root node name for XML or JSON.
-l <log_file>	Outputs log messages to the specified file.
-e <encoding>	Sets the character encoding (e.g., UTF-8, ANSI).
-v	Enables verbose output for debugging.

Examples

1. Generating a Type Tree from a COBOL Copybook

```
sh
CopyEdit
TTMakr64.exe -i mycopybook.cpy -o mytypetree.mtt -t cobol
```

2. Generating a Type Tree from an XML Schema

```
sh
CopyEdit
TTMakr64.exe -i schema.xsd -o mytypetree.mtt -t xml -n RootElement
```

3. Generating a Type Tree from a JSON Schema

```
sh
CopyEdit
TTMakr64.exe -i schema.json -o mytypetree.mtt -t json
```

4. Generating a Type Tree from a Database DDL

```
sh
CopyEdit
TTMakr64.exe -i database.ddl -o mytypetree.mtt -t ddl
```

Troubleshooting

- Error: "Invalid input file type" → Check if the file format matches the specified -t type.
- Error: "Output file cannot be created" → Ensure you have write permissions for the output location.
- Generated Type Tree is incorrect → Use -v to enable verbose mode and analyze the logs.

Windows authentication in C++ API using ODBC to mssql server

23 February 2025 20:07

If you want to authenticate to an MSSQL server using Windows Authentication via ODBC in a C++ application, you can use the **SQL Server Native Client ODBC driver** or the **ODBC Driver for SQL Server**. Here's how you can do it:

1. Prerequisites

- **ODBC Driver for SQL Server** must be installed.
- **SQL Server** should allow Windows Authentication.
- **Microsoft ODBC Driver for SQL Server** should be installed on the machine.
- Your system must be joined to a domain or have local authentication enabled.

2. Troubleshooting:

- If the connection fails, check if:
 - The SQL Server service is running.
 - The ODBC driver is installed (ODBC Driver 17 for SQL Server recommended).
 - The correct database name is used.
 - Your Windows account has access to the database.

3. ODBC Connection String (Windows Authentication)

Instead of providing a username and password, use **trusted connection**.

```
"DRIVER={ODBC Driver 17 for SQL Server};SERVER=your_server_name;DATABASE=your_db_name;Trusted_Connection=Yes;"
```

4. C++ Code using ODBC API

Here is a simple C++ program that connects to MSSQL using Windows Authentication.

```
#include <windows.h>
#include <sql.h>
#include <sqlext.h>
#include <iostream>
void throwError(SQLRETURN ret, SQLHANDLE handle, SQLSMALLINT type) {
    if (ret != SQL_SUCCESS && ret != SQL_SUCCESS_WITH_INFO) {
        SQLCHAR sqlState[6], msg[256];
        SQLINTEGER nativeError;
        SQLSMALLINT msgLen;
        SQLGetDiagRec(type, handle, 1, sqlState, &nativeError, msg, sizeof(msg), &msgLen);
        std::cerr << "ODBC Error: " << msg << " (SQLSTATE: " << sqlState << ")" << std::endl;
        exit(EXIT_FAILURE);
    }
}
int main() {
    SQLHENV hEnv = NULL;
    SQLHDBC hDbc = NULL;
    SQLRETURN ret;
    // Allocate environment handle
    ret = SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &hEnv);
    throwError(ret, hEnv, SQL_HANDLE_ENV);
    // Set ODBC version
    ret = SQLSetEnvAttr(hEnv, SQL_ATTR_ODBC_VERSION, (SQLPOINTER)SQL_OV_ODBC3, 0);
    throwError(ret, hEnv, SQL_HANDLE_ENV);
    // Allocate connection handle
    ret = SQLAllocHandle(SQL_HANDLE_DBC, hEnv, &hDbc);
    throwError(ret, hDbc, SQL_HANDLE_DBC);
    // Connect to SQL Server using Windows Authentication
    SQLCHAR connStr[] = "DRIVER={ODBC Driver 17 for SQL Server};SERVER=localhost;DATABASE=TestDB;Trusted_Connection=Yes;";
    SQLCHAR outStr[1024];
    SQLSMALLINT outStrLen;
    ret = SQLDriverConnect(hDbc, NULL, connStr, SQL_NTS, outStr, sizeof(outStr), &outStrLen, SQL_DRIVER_NOPROMPT);
    throwError(ret, hDbc, SQL_HANDLE_DBC);
    std::cout << "Connected to database successfully!" << std::endl;
    // Clean up
    SQLDisconnect(hDbc);
    SQLFreeHandle(SQL_HANDLE_DBC, hDbc);
    SQLFreeHandle(SQL_HANDLE_ENV, hEnv);
    return 0;
}
=====
#include <windows.h>
#include <sqlext.h>
#include <sqltypes.h>
#include <sql.h>
#include <iostream>

void show_error(SQLHANDLE handle, SQLSMALLINT type) {
    SQLWCHAR sqlState[6], message[SQL_MAX_MESSAGE_LENGTH];
    SQLINTEGER nativeError;
    SQLSMALLINT messageLength;

    if (SQLGetDiagRec(type, handle, 1, sqlState, &nativeError, message, sizeof(message) / sizeof(SQLWCHAR), &messageLength) == SQL_SUCCESS) {
        std::wcerr << L"SQL Error: " << message << std::endl;
    }
}
```

```

int main() {
    SQLHANDLE sqlEnvHandle, sqlConnHandle;
    SQLRETURN retCode;

    // Allocate environment handle
    if (SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &sqlEnvHandle) != SQL_SUCCESS) {
        std::cerr << "Error allocating SQL environment handle\n";
        return -1;
    }

    // Set the ODBC version
    SQLSetEnvAttr(sqlEnvHandle, SQL_ATTR_ODBC_VERSION, (SQLPOINTER)SQL_OV_ODBC3, 0);

    // Allocate connection handle
    if (SQLAllocHandle(SQL_HANDLE_DBC, sqlEnvHandle, &sqlConnHandle) != SQL_SUCCESS) {
        std::cerr << "Error allocating SQL connection handle\n";
        return -1;
    }

    // Connection string using Windows Authentication
    SQLWCHAR connStr[] = L"DRIVER={ODBC Driver 17 for SQL Server};"
        L"SERVER=localhost;" 
        L"DATABASE=YourDatabase;" 
        L"Trusted_Connection=Yes;";

    // Connect to the database
    retCode = SQLDriverConnectW(sqlConnHandle, NULL, connStr, SQL_NTS, NULL, 0, NULL, SQL_DRIVER_NOPROMPT);

    if (retCode == SQL_SUCCESS || retCode == SQL_SUCCESS_WITH_INFO) {
        std::wcout << L"Connected to the database successfully!\n";
    } else {
        std::cerr << "Failed to connect to the database.\n";
        show_error(sqlConnHandle, SQL_HANDLE_DBC);
        SQLFreeHandle(SQL_HANDLE_DBC, sqlConnHandle);
        SQLFreeHandle(SQL_HANDLE_ENV, sqlEnvHandle);
        return -1;
    }

    // Disconnect and cleanup
    SQLDisconnect(sqlConnHandle);
    SQLFreeHandle(SQL_HANDLE_DBC, sqlConnHandle);
    SQLFreeHandle(SQL_HANDLE_ENV, sqlEnvHandle);

    std::wcout << L"Disconnected from the database.\n";

    return 0;
}

```

5. Explanation

- **SQLAllocHandle**: Allocates environment and connection handles.
- **SQLSetEnvAttr**: Sets ODBC version to 3.
- **SQLDriverConnect**: Connects using Windows Authentication (Trusted_Connection=Yes).
- **checkError**: Retrieves and prints any ODBC errors.
- **SQLDisconnect**: Closes the database connection.

6. Compiling the Code

If you're using MinGW (g++) or MSVC, compile with:

```

CopyEdit
g++ -o my_program my_program.cpp -lodbc32
or

```

```

vbnet
CopyEdit
cl my_program.cpp odbc32.lib
Would you like help with executing queries or handling results?
=====

```

To connect to a Microsoft SQL Server (MSSQL) from a Unix/Linux environment using **Windows Authentication (Integrated Security)** in a C++ API, you typically need:

1. **ODBC (UnixODBC or iODBC)**
2. **FreeTDS** (for SQL Server connectivity)
3. **Kerberos or Samba (Winbind) for Windows Authentication**

Approach:

1. Install Required Packages

First, install **UnixODBC** and **FreeTDS** on your Unix/Linux system.

```

sh
CopyEdit
# Debian/Ubuntu
sudo apt update
sudo apt install unixodbc unixodbc-dev freetds-bin freetds-dev freetds-common

sh
CopyEdit
# Red Hat/CentOS
sudo yum install unixODBC unixODBC-devel freetds freetds-devel

```

2. Configure FreeTDS

Modify the FreeTDS configuration file (/etc/freetds/freetds.conf):

```
ini
CopyEdit
[sqlserver]
host = your-sql-server-hostname
port = 1433
tds version = 7.4 # Use 7.3 or 7.4 for modern MSSQL servers
client charset = UTF-8
```

3. Configure ODBC for MSSQL Server

Edit /etc/odbcinst.ini to define the FreeTDS driver:

```
ini
CopyEdit
[FreeTDS]
Description = FreeTDS Driver for MSSQL
Driver = /usr/lib/x86_64-linux-gnu/odbc/libtdsodbc.so
Setup = /usr/lib/x86_64-linux-gnu/odbc/libtdsS.so
Then configure your DSN in /etc/odbc.ini:
```

```
ini
CopyEdit
[SQLServerDSN]
Description = MSSQL Server via FreeTDS
Driver = FreeTDS
Servername = sqlserver
Database = your_database
Port = 1433
TDS_Version = 7.4
```

4. Enable Windows Authentication (Kerberos)

You need Kerberos or Samba (Winbind) to authenticate against Windows Active Directory.

- Install Kerberos:

```
sh
CopyEdit
sudo apt install krb5-user
• Configure /etc/krb5.conf:
```

```
ini
CopyEdit
[libdefaults]
default_realm = YOURDOMAIN.COM
dns_lookup_kdc = true
dns_lookup_realm = false

[realms]
YOURDOMAIN.COM = {
    kdc = your-domain-controller.yourdomain.com
    admin_server = your-domain-controller.yourdomain.com
}

[domain_realm]
.yourdomain.com = YOURDOMAIN.COM
yourdomain.com = YOURDOMAIN.COM
```

- Obtain a Kerberos ticket:

```
sh
CopyEdit
kinit your_username@YOURDOMAIN.COM
```

5. C++ Code to Connect

Now, write a C++ program using ODBC API:

```
cpp
CopyEdit
#include <iostream>
#include <sql.h>
#include <sqlext.h>
void checkError(SQLRETURN ret, SQLHANDLE handle, SQLSMALLINT type) {
    if (ret != SQL_SUCCESS && ret != SQL_SUCCESS_WITH_INFO) {
        SQLCHAR sqlState[6], msg[SQL_MAX_MESSAGE_LENGTH];
        SQLINTEGER nativeError;
        SQLSMALLINT msgLen;
        SQLGetDiagRec(type, handle, 1, sqlState, &nativeError, msg, sizeof(msg), &msgLen);
        std::cerr << "SQL Error: " << msg << " (SQL State: " << sqlState << ")\n";
    }
}
int main() {
    SQLENV hEnv;
    SQLHDBC hDbc;
    SQLRETURN ret;
// Allocate environment handle
    ret = SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &hEnv);
    checkError(ret, hEnv, SQL_HANDLE_ENV);
// Set ODBC version
    ret = SQLSetEnvAttr(hEnv, SQL_ATTR_ODBC_VERSION, (SQLPOINTER)SQL_OV_ODBC3, 0);
    checkError(ret, hEnv, SQL_HANDLE_ENV);
// Allocate connection handle
```

```

ret = SQLAllocHandle(SQL_HANDLE_DBC, hEnv, &hDbc);
checkError(ret, hDbc, SQL_HANDLE_DBC);
// Connect using DSN
SQLCHAR connStr[] = "DSN=SQLServerDSN;UID=your_username;PWD=your_password;";
ret = SQLDriverConnect(hDbc, NULL, connStr, SQL_NTS, NULL, 0, NULL, SQL_DRIVER_NOPROMPT);
checkError(ret, hDbc, SQL_HANDLE_DBC);
if (ret == SQL_SUCCESS || ret == SQL_SUCCESS_WITH_INFO) {
    std::cout << "Connected to SQL Server successfully!" << std::endl;
}
// Clean up
SQLDisconnect(hDbc);
SQLFreeHandle(SQL_HANDLE_DBC, hDbc);
SQLFreeHandle(SQL_HANDLE_ENV, hEnv);
return 0;
}

6. Compile and Run

sh
CopyEdit
g++ -o sqlconnect sqlconnect.cpp -lodbc
./sqlconnect

cl /EHsc /Fe:sql_connect.exe your_program.cpp odbc32.lib

```

Alternative: Use ODBC with Kerberos Authentication

Modify the connection string to use **integrated authentication**:

```

cpp
CopyEdit
SQLCHAR connStr[] = "DSN=SQLServerDSN;Integrated Security=SSPI;";
Ensure that:
• You have a valid Kerberos ticket (kinit your_username).
• odbc.ini includes:

ini
CopyEdit
AuthenticationMethod = 9

(Kerberos authentication).

```

Conclusion

To authenticate an MSSQL Server from Linux using Windows authentication:

1. Install **FreeTDS** and **UnixODBC**.
 2. Configure **FreeTDS** and **ODBC**.
 3. Use **Kerberos** for authentication.
 4. Write **C++ code** to connect via ODBC.
-

To achieve Windows Authentication from AIX, you can use the following methods:

1. Use ODBC with Kerberos Authentication

- Install the **ODBC Driver for SQL Server** on AIX.
- Configure **Kerberos (MIT Kerberos or Heimdal)** on AIX to authenticate against Active Directory (AD).
- Use the ODBC driver in your C++ application to connect to SQL Server.

Steps:

1. Install the **Microsoft ODBC Driver for SQL Server** on AIX.
2. Configure /etc/krb5.conf to authenticate against the Windows AD domain.
3. Obtain a Kerberos ticket using kinit:

```

sh
CopyEdit
kinit user@DOMAIN.COM

```

4. Test authentication with:

```

sh
CopyEdit
klist

```

5. Configure an ODBC DSN in /etc/odbc.ini:

```

ini
CopyEdit
[MSQLServer]
Driver = ODBC Driver 17 for SQL Server
Server = sqlserver.domain.com
Authentication = Kerberos

```

6. Use SQLConnect() or SQLDriverConnect() in C++ to connect.

2. Use FreeTDS with Kerberos

- FreeTDS is an open-source implementation of the **TDS (Tabular Data Stream) protocol**, which allows Unix systems to connect to SQL Server.
- It supports Kerberos authentication.

Steps:

1. Install **FreeTDS** on AIX.
2. Configure freetds.conf:

```

java
CopyEdit
[global]
tds version = 7.3
client charset = UTF-8

```

3. Use isql to test the connection.
 4. In C++, use the **dblib** or **ODBC API** from FreeTDS.
- 3. Use JDBC with jTDS or Microsoft JDBC Driver**
- If your C++ application can use Java as a bridge, you can use **jTDS** or **Microsoft JDBC Driver with Kerberos authentication**.
- Example Java-based approach (for reference):**

```
java
CopyEdit
String url = "jdbc:sqlserver://server:1433;integratedSecurity=true";
Connection conn = DriverManager.getConnection(url);
```

4. Use a Proxy Service (Workaround)

- If direct authentication from AIX is too complex, you can:
 - Set up a **Windows-based authentication proxy** (e.g., a REST API on Windows).
 - Your AIX C++ app communicates with this proxy, which connects to SQL Server using Windows Authentication.

C++ Code Example (ODBC Approach)

Here's a basic C++ ODBC example that works if the ODBC driver is correctly set up:

```
cpp
CopyEdit
#include <sql.h>
#include <sqlext.h>
#include <iostream>
void checkError(SQLRETURN ret, SQLHANDLE handle, SQLSMALLINT type) {
    if (ret != SQL_SUCCESS && ret != SQL_SUCCESS_WITH_INFO) {
        SQLCHAR sqlState[6], msg[256];
        SQLINTEGER nativeErr;
        SQLSMALLINT msgLen;
        SQLGetDiagRec(type, handle, 1, sqlState, &nativeErr, msg, sizeof(msg), &msgLen);
        std::cerr << "Error: " << msg << "(SQL State: " << sqlState << ")\n";
    }
}
int main() {
    SQLHENV hEnv;
    SQLHDBC hDbc;
    SQLRETURN ret;
    // Allocate environment handle
    ret = SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &hEnv);
    SQLSetEnvAttr(hEnv, SQL_ATTR_ODBC_VERSION, (SQLPOINTER)SQL_OV_ODBC3, 0);
    // Allocate connection handle
    ret = SQLAllocHandle(SQL_HANDLE_DBC, hEnv, &hDbc);
    // Connect using ODBC DSN
    ret = SQLConnect(hDbc, (SQLCHAR*)"MSSQLServer", SQL_NTS,
                     NULL, 0, NULL, 0);
    checkError(ret, hDbc, SQL_HANDLE_DBC);
    if (ret == SQL_SUCCESS || ret == SQL_SUCCESS_WITH_INFO) {
        std::cout << "Connected to SQL Server successfully.\n";
    }
    // Clean up
    SQLDisconnect(hDbc);
    SQLFreeHandle(SQL_HANDLE_DBC, hDbc);
    SQLFreeHandle(SQL_HANDLE_ENV, hEnv);
    return 0;
}
```

Conclusion

- **Best approach:** Use **ODBC with Kerberos authentication**.
- **Alternative:** FreeTDS or a proxy service if Kerberos setup is too complex.
- **C++ API Choice:** Use **ODBC API** (SQLConnect or SQLDriverConnect).

To connect to Microsoft SQL Server from a Java JDBC application using **Windows Authentication (Integrated Security)**, follow these steps:

1. Add Required JDBC Driver

Download and add the **Microsoft JDBC Driver for SQL Server**:

- [Download here](#)

2. Use Windows Authentication in JDBC Connection

You need to specify the **integratedSecurity=true** parameter in your JDBC URL.

Method 1: Using Integrated Security (Windows Authentication)

Prerequisites

1. Ensure the **SQL Server** is configured for Windows Authentication.
2. Place **sqljdbc_auth.dll** in your **java.library.path**.
 - This file is available in the JDBC driver package under:

```
bash
CopyEdit
sqljdbc_<version>/enu/auth/x64/sqljdbc_auth.dll
o Copy this file to a system path like:

makefile
CopyEdit
C:\Windows\System32
o Or explicitly set the library path using:

java
```

```

CopyEdit
System.setProperty("java.library.path", "C:\\path\\to\\sqljdbc_auth.dll");
JDBC Connection Code

java
CopyEdit
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class MSSQLWindowsAuth {
    public static void main(String[] args) {
        String jdbcUrl = "jdbc:sqlserver://localhost:1433;databaseName=YourDatabase;integratedSecurity=true;";

        try {
            // Load the JDBC driver (optional for newer Java versions)
            Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");
        } catch (ClassNotFoundException e) {
            System.err.println("SQL Server JDBC Driver not found.");
            e.printStackTrace();
        } catch (SQLException e) {
            System.err.println("SQL Server connection failed.");
            e.printStackTrace();
        }
    }
}

```

Method 2: Using Windows Authentication with User Credentials

Instead of integratedSecurity=true, specify your Windows credentials in the connection URL.

```

java
CopyEdit
String jdbcUrl = "jdbc:sqlserver://localhost:1433;databaseName=YourDatabase;user=DOMAIN\\YourUsername;password=YourPassword;";
Alternatively, use Properties:
```

```

java
CopyEdit
import java.sql.*;
import java.util.Properties;
public class MSSQLAuthWithCredentials {
    public static void main(String[] args) {
        String jdbcUrl = "jdbc:sqlserver://localhost:1433;databaseName=YourDatabase;";

        Properties properties = new Properties();
        properties.setProperty("user", "DOMAIN\\YourUsername");
        properties.setProperty("password", "YourPassword");

        try {
            Connection conn = DriverManager.getConnection(jdbcUrl, properties);
            System.out.println("Connected to SQL Server successfully!");
            conn.close();
        } catch (SQLException e) {
            System.err.println("Connection failed.");
            e.printStackTrace();
        }
    }
}
```

Troubleshooting

1. "integratedSecurity=true" not working?
 - o Ensure sqljdbc_auth.dll is in the correct path and matches your **JVM architecture** (32-bit or 64-bit).
2. Port 1433 blocked?
 - o Check **SQL Server Configuration Manager** → **TCP/IP settings**.
 - o Open port **1433** in Windows Firewall.
3. Domain authentication issues?
 - o Use user=DOMAIN\\Username instead of integratedSecurity=true.

Alternative: Using Kerberos Authentication

For enterprise environments, you might need **Kerberos Authentication**. In this case, you must configure a **Kerberos ticket** using kinit before running your Java application.

=====

Windows Authentication (Integrated Security) in SQL Server typically relies on the Windows credentials of the user running the application. However, using Windows Authentication from a **Linux** machine can be tricky because Linux does not natively support Windows Authentication.

Steps to Achieve Windows Authentication from Linux (Java JDBC):

1. Use **sqljdbc_auth.dll** (Not Supported on Linux)

This method is only available on Windows, so you **cannot** use it directly on Linux.

2. Use Kerberos Authentication (Recommended)

Since Windows Authentication in SQL Server is based on Kerberos, you can use **Kerberos authentication** on Linux to connect via JDBC.

Step 1: Install Required Packages

Make sure krb5 (Kerberos) is installed on your Linux machine:

```

sh
CopyEdit

```

```
sudo apt install krb5-user libpam-krb5 libpam-ccreds auth-client-config
```

For RedHat/CentOS:

```
sh  
CopyEdit  
sudo yum install krb5-workstation krb5-libs
```

Step 2: Configure Kerberos (/etc/krb5.conf)

Edit the Kerberos configuration file (/etc/krb5.conf), replacing <DOMAIN> and <DC> with your actual domain and domain controller:

```
ini  
CopyEdit  
[libdefaults]  
    default_realm = MYDOMAIN.COM  
    dns_lookup_kdc = true  
    dns_lookup_realm = false  
[realms]  
    MYDOMAIN.COM = {  
        kdc = mydomaincontroller.mydomain.com  
        admin_server = mydomaincontroller.mydomain.com  
    }  
[domain_realm]  
.mydomain.com = MYDOMAIN.COM  
mydomain.com = MYDOMAIN.COM
```

Step 3: Obtain Kerberos Ticket

Use the kinit command to authenticate with Kerberos:

```
sh  
CopyEdit  
kinit myusername@MYDOMAIN.COM  
It will prompt for your Active Directory password.  
Verify the ticket with:
```

```
sh  
CopyEdit  
klist  
Step 4: Use IntegratedSecurity=true in JDBC URL  
Modify your Java JDBC connection string to use Kerberos authentication:
```

```
java  
CopyEdit  
String url = "jdbc:sqlserver://your-sql-server:1433;"  
    + "databaseName=YourDB;"  
    + "integratedSecurity=true;"  
    + "authenticationScheme=JavaKerberos";  
Connection conn = DriverManager.getConnection(url);
```

Step 5: Set Java System Properties

Before running your Java application, set the required system properties:

```
sh  
CopyEdit  
export JAVA_OPTS="-Djava.security.auth.login.config=/path/to/jaas.conf \  
-Djavax.security.auth.useSubjectCredsOnly=false"
```

Step 6: Create a JAAS Configuration File (jaas.conf)

Create a file (jaas.conf) with the following content:

```
cpp  
CopyEdit  
SQLDBCDriver {  
    com.sun.security.auth.module.Krb5LoginModule required  
    doNotPrompt=true  
    useTicketCache=true  
    renewTGT=true;  
};
```

Step 7: Run Java Application

Now, execute your Java application, and it should authenticate against SQL Server using Kerberos from Linux.

Alternative: Use NTLM Authentication via jTDS (Not Recommended)

Another workaround is using **jTDS JDBC Driver**, but it requires **username** and **password** instead of true Windows Authentication.

```
java  
CopyEdit  
String url = "jdbc:jtds:sqlserver://your-sql-server:1433/YourDB;"  
    + "domain=MYDOMAIN";  
Connection conn = DriverManager.getConnection(url, "myusername", "mypassword");  
However, this does not fully support Windows authentication with Kerberos, so Kerberos is the recommended approach.  
=====
```

Windows Authentication for SQL Server typically relies on Kerberos or NTLM, which is challenging when connecting from AIX because it's a Unix-based OS and doesn't support Windows Integrated Authentication natively.

However, you can still authenticate using Windows credentials in Java when connecting to SQL Server from AIX using the following approaches:

1. Use SQL Server Authentication (Recommended for AIX)

Instead of Windows Authentication, use SQL Server authentication with a username and password:

```
java  
CopyEdit  
String url = "jdbc:sqlserver://your_server:1433;databaseName=your_database";  
String user = "your_sql_username";  
String password = "your_sql_password";
```

```
Connection conn = DriverManager.getConnection(url, user, password);
This approach is simpler because it does not require Kerberos configuration.
```

2. Kerberos Authentication (If Windows Authentication is Required)

If you must use Windows Authentication, configure Kerberos authentication on AIX:

Step 1: Install Kerberos Client on AIX

You need a Kerberos client (such as krb5) installed and configured on your AIX machine.

Step 2: Configure krb5.conf

Create or modify /etc/krb5.conf with the correct Kerberos realm and domain mappings:

```
csharp
CopyEdit
[libdefaults]
default_realm = YOURDOMAIN.COM
dns_lookup_realm = false
dns_lookup_kdc = true
[realms]
YOURDOMAIN.COM = {
    kdc = your-domain-controller.yourdomain.com
    admin_server = your-domain-controller.yourdomain.com
}
[domain_realm]
.yourdomain.com = YOURDOMAIN.COM
yourdomain.com = YOURDOMAIN.COM
```

Step 3: Obtain a Kerberos Ticket

Run the following command to obtain a Kerberos ticket:

```
sh
CopyEdit
kinit your_windows_username@YOURDOMAIN.COM
You'll be prompted to enter your Windows password.
Verify the ticket using:
```

```
sh
CopyEdit
klist
Step 4: Configure JDBC Connection String
Use Microsoft's JDBC Driver and enable Kerberos authentication in the connection URL:
```

```
java
CopyEdit
String url = "jdbc:sqlserver://your_server:1433;" +
    + "databaseName=your_database;" +
    + "integratedSecurity=true;" +
    + "authenticationScheme=JavaKerberos";
System.setProperty("java.security.krb5.conf", "/etc/krb5.conf");
System.setProperty("javax.security.auth.useSubjectCredsOnly", "false");
Connection conn = DriverManager.getConnection(url);
Step 5: Use the JDBC Driver That Supports Kerberos
```

Make sure you are using Microsoft's JDBC driver (mssql-jdbc-<version>.jar). You can download it from [Microsoft's website](#).

3. Using JTDS with NTLM (Alternative)

Another option is to use the JTDS driver, which supports NTLM authentication:

```
java
CopyEdit
String url = "jdbc:jtds:sqlserver://your_server:1433/your_database;domain=YOURDOMAIN";
String user = "your_windows_username";
String password = "your_windows_password";
Connection conn = DriverManager.getConnection(url, user, password);
However, JTDS is no longer actively maintained, so it's better to use Kerberos with Microsoft's official driver.
```

Which Method to Use?

- If possible, use **SQL Server Authentication** (simpler, no need for Kerberos).
- If Windows Authentication is required, **Kerberos is the best option**.
- **JTDS with NTLM** can work but is not recommended due to lack of support.

=====

If you're looking to connect to an **Oracle database** from C++ using **Windows authentication (OS authentication / Integrated Security)**, you typically use **Oracle Call Interface (OCI)** or **ODBC**. Here's a breakdown of how to achieve this:

1. Using OCI (Oracle Call Interface)

OCI is Oracle's low-level C API for database access. To authenticate using Windows credentials:

Prerequisites

- Install **Oracle Instant Client** (Basic + SDK).
- Ensure Oracle server is configured to support **Windows authentication (OS_AUTHENT_PREFIX=""** in sqlnet.ora).
- Your Windows user must have an Oracle account mapped to it.

Steps

1. Set up OCI environment:

```
cpp
CopyEdit
#include <oci.h>

int main() {
```

```

OCIEnv *env;
OCIError *err;
OCISvcCtx *svc;

OCIBeginInitialize(OCI_DEFAULT, NULL, NULL, NULL, NULL);
OCIEnvInit(&env, OCI_DEFAULT, 0, NULL);
OCIHandleAlloc(env, (void**)&err, OCI_HTYPE_ERROR, 0, NULL);
OCIHandleAlloc(env, (void**)&svc, OCI_HTYPE_SVCCTX, 0, NULL);

const char* db = "//DB_SERVER/SERVICE_NAME"; // Use TNS or EZCONNECT
OCIHandleAlloc(env, (void**)&svc, OCI_HTYPE_SVCCTX, 0, NULL);

sword status = OCILogon(env, err, &svc, NULL, 0, NULL, 0, (OraText*)db, strlen(db));

if (status == OCI_SUCCESS) {
    printf("Connected successfully!\n");
} else {
    printf("Failed to connect.\n");
}

OCILogoff(svc, err);
OCIHandleFree(env, OCI_HTYPE_ENV);
}

```

- o No username/password is required; it relies on Windows authentication.

2. Using ODBC (Easier Alternative)

You can use the **Oracle ODBC driver** and the **SQLDriverConnect** function.

Steps

1. Install Oracle ODBC Driver from [Oracle Instant Client](#).
2. Configure ODBC Data Source (DSN):
 - o Open ODBC Data Source Administrator (odbcad32.exe).
 - o Add a new User/System DSN using the **Oracle driver**.
 - o In the **User ID** field, enter / (slash) to indicate Windows authentication.
3. C++ Code

```

cpp
CopyEdit
#include <windows.h>
#include <sqlext.h>
#include <iostream>

int main() {
    SQLHENV hEnv;
    SQLHDBC hDbc;
    SQLHSTMT hStmt;
    SQLRETURN ret;

    SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &hEnv);
    SQLSetEnvAttr(hEnv, SQL_ATTR_ODBC_VERSION, (void*)SQL_OV_ODBC3, 0);
    SQLAllocHandle(SQL_HANDLE_DBC, hEnv, &hDbc);

    ret = SQLDriverConnect(hDbc, NULL,
        (SQLCHAR*)"DSN=YourDSN;UID=/", // DSN should be configured for Windows auth
        SQL_NTS, NULL, 0, NULL, SQL_DRIVER_COMPLETE);

    if (SQL_SUCCEEDED(ret)) {
        std::cout << "Connected successfully!" << std::endl;
        SQLAllocHandle(SQL_HANDLE_STMT, hDbc, &hStmt);
        SQLExecDirect(hStmt, (SQLCHAR*)"SELECT SYSDATE FROM DUAL", SQL_NTS);

        SQLFreeHandle(SQL_HANDLE_STMT, hStmt);
    } else {
        std::cout << "Connection failed!" << std::endl;
    }

    SQLDisconnect(hDbc);
    SQLFreeHandle(SQL_HANDLE_DBC, hDbc);
    SQLFreeHandle(SQL_HANDLE_ENV, hEnv);
}

```

Which One to Choose?

Method	Pros	Cons
OCI (Oracle Call Interface)	High performance, native Oracle API	More complex setup
ODBC (Easier with DSN)	Simpler, works with multiple DBs	Requires DSN configuration

If you need **high-performance** and deep Oracle features, use **OCI**. If you prefer **easier setup**, go with **ODBC**.

=====

To connect to an Oracle Database from Linux using **Windows Authentication (OS Authentication or Kerberos)** in C++, follow these steps:

1. Use Kerberos Authentication

Since Windows Authentication is not natively available on Linux, you need **Kerberos** (Active Directory Single Sign-On). Here's how:

Step 1: Install Required Packages

On Linux, install the following:

```

sh
CopyEdit

```

```
sudo apt install krb5-user libpam-krb5 libnss-krb5  
or (for RHEL-based systems):
```

```
sh  
CopyEdit  
sudo yum install krb5-workstation pam_krb5
```

Step 2: Configure Kerberos

Edit /etc/krb5.conf to match your Active Directory domain:

```
ini  
CopyEdit  
[libdefaults]  
    default_realm = YOURDOMAIN.COM  
    dns_lookup_kdc = true  
    dns_lookup_realm = false  
    ticket_lifetime = 24h  
    forwardable = yes  
[realms]  
    YOURDOMAIN.COM = {  
        kdc = your-ad-server.yourdomain.com  
        admin_server = your-ad-server.yourdomain.com  
        default_domain = yourdomain.com  
    }  
[domain_realm]  
    .yourdomain.com = YOURDOMAIN.COM  
    yourdomain.com = YOURDOMAIN.COM
```

Run:

```
sh  
CopyEdit  
kinit your_windows_username@YOURDOMAIN.COM  
Enter your password and check:
```

```
sh  
CopyEdit  
klist
```

2. Install and Configure Oracle Client

You need Oracle Instant Client:

```
sh  
CopyEdit  
sudo apt install libaio1  
wget https://download.oracle.com/otn\_software/linux/instantclient/instantclient-basic-linux.x64-21.6.0.0.0dbru.zip  
wget https://download.oracle.com/otn\_software/linux/instantclient/instantclient-sdk-linux.x64-21.6.0.0.0dbru.zip  
unzip instantclient-basic-linux.x64-* .zip -d /opt/oracle  
unzip instantclient-sdk-linux.x64-* .zip -d /opt/oracle  
Set environment variables:
```

```
sh  
CopyEdit  
export ORACLE_HOME=/opt/oracle/instantclient_21_6  
export LD_LIBRARY_PATH=$ORACLE_HOME:$LD_LIBRARY_PATH  
export PATH=$ORACLE_HOME:$PATH  
export TNS_ADMIN=$ORACLE_HOME/network/admin
```

3. Configure Oracle for Kerberos Authentication

Edit \$TNS_ADMIN/sqlnet.ora:

```
ini  
CopyEdit  
SQLNET.AUTHENTICATION_SERVICES = (KERBEROS5)  
SQLNET.KERBEROS_CONF = /etc/krb5.conf  
SQLNET.KERBEROS_CONF_MIT = TRUE  
Edit $TNS_ADMIN/tnsnames.ora:  
  
ini  
CopyEdit  
ORACLEDB =  
(DESCRIPTION =  
    (ADDRESS = (PROTOCOL = TCP)(HOST = oracle-server.yourdomain.com)(PORT = 1521))  
    (CONNECT_DATA =  
        (SERVICE_NAME = your_service)  
    )  
)  
Test connection:
```

```
sh  
CopyEdit  
sqlplus /@ORACLEDB
```

4. Connect from C++ using OCI (Oracle Call Interface)

Here's a sample C++ program:

```
cpp  
CopyEdit
```

```

#include <iostream>
#include <occi.h>
using namespace oracle::occi;
using namespace std;
int main() {
    try {
        Environment *env = Environment::createEnvironment(Environment::DEFAULT);
        Connection *conn = env->createConnection("/", "", "ORACLEDB"); // OS Authentication

        Statement *stmt = conn->createStatement("SELECT SYSDATE FROM dual");
        ResultSet *rs = stmt->executeQuery();

        if (rs->next()) {
            cout << "Current Date: " << rs->getString(1) << endl;
        }
        stmt->closeResultSet(rs);
        conn->terminateStatement(stmt);
        env->terminateConnection(conn);
        Environment::terminateEnvironment(env);
    } catch (SQLException &ex) {
        cout << "Error: " << ex.getMessage() << endl;
    }
    return 0;
}
Compile:

sh
CopyEdit
g++ -o oracle_test oracle_test.cpp -I$ORACLE_HOME/sdk/include -L$ORACLE_HOME -locci -lclntsh
Run:

sh
CopyEdit
./oracle_test

```

Conclusion

- You need **Kerberos Authentication** to enable Windows-based authentication from Linux.
- Install Oracle **Instant Client** and configure **OCI**.
- Use `"/@ORACLEDB"` in `env->createConnection()` for **OS Authentication**.

=====
You're trying to connect from an AIX system to an Oracle Server using **Windows Authentication (Kerberos or OS authentication)** from a C++ API. This setup can be challenging because:

1. AIX does not natively support **Windows Authentication** for database connections.
2. Oracle authentication mechanisms (like OS authentication or Kerberos) require additional configuration.
3. C++ API options for Oracle connectivity include **OCI (Oracle Call Interface), ODBC, and Pro*C**.

Possible Approaches

1. Using Kerberos Authentication

This is the best approach if your Oracle Server is configured for Kerberos authentication.

- Ensure Kerberos Client (**krb5**) is installed and configured on AIX.
- Request a Kerberos Ticket (`kinit user@DOMAIN.COM`).
- Use Oracle Advanced Security (OAS) to authenticate using Kerberos.

OCI Example:

- Configure `sqlnet.ora` and `krb5.conf` for Kerberos.
- In C++, use OCI to connect via the CONNECT `/@TNS_ALIAS`.

2. Using Oracle Wallet and External Password Store

If Kerberos isn't an option, use **Oracle Wallet** to store credentials securely.

- Configure `sqlnet.ora` to use the wallet.
- Store credentials (`mkstore`).
- Use OCI or ODBC in C++ to connect without hardcoding passwords.

3. Using Proxy Authentication

- If the Oracle DB is configured for proxy authentication, you can connect as a "proxy user" using OCI.

4. Using an ODBC Driver with Windows Authentication

- Install and configure an **ODBC driver** that supports Windows Authentication on AIX.
- Use `SQLConnect()` in C++ with an ODBC connection string.

Next Steps:

- Do you control the Oracle server config?
- Is Kerberos authentication enabled in Oracle?
- Would you prefer OCI, ODBC, or Pro*C?

OERR ORA-01110 causes and resolution

22 February 2025 18:06

The Oracle error **ORA-01110** is associated with file management issues in the database. It is typically accompanied by another error message that provides more details about the underlying problem.

Error Message Format:

ORA-01110: data file <file number>: '<file name>'

This error usually follows other file-related errors such as **ORA-01157**, **ORA-01113**, or **ORA-01207**.

Common Causes:

1. **Corrupt or Missing Data File**
 - o The database is trying to access a data file that is either missing or corrupted.
2. **Data File Unavailable**
 - o The file might be on a disk that is offline or inaccessible due to hardware failure.
3. **Insufficient Permissions**
 - o The Oracle user may not have the necessary file system permissions to access the data file.
4. **Storage Issues**
 - o If the file system is full, Oracle may fail to read or write to the data file.
5. **Improper Shutdown or Crash**
 - o A database crash or abnormal shutdown could leave a data file in an inconsistent state.

Resolution Steps:

1. **Check for Additional Errors**
 - o Look at accompanying errors (like ORA-01157) to identify the exact issue.
2. **Verify File Existence**
 - o Check if the data file exists using:

```
SELECT file_name, file_id FROM dba_data_files;
```

o If missing, restore the file from a backup.

3. **Check File Accessibility**
 - o Ensure the file is in the correct directory and has the right permissions:
ls -l /path/to/datafile.dbf

4. **Recover Corrupted Files**
 - o If a file is corrupt, restore it from backup and apply archived logs:

```
RECOVER DATAFILE '/path/to/datafile.dbf';
```

5. **Verify Disk Space**
 - o Ensure there is enough free space on the file system.

6. **Bring the File Online**
 - o If the file was taken offline, bring it online:

```
ALTER DATABASE DATAFILE '/path/to/datafile.dbf' ONLINE;
```

If the issue persists, you may need to **restore from backup** or consult your Oracle DBA for further analysis.

OERR ORA-01187 causes and resolution

22 February 2025 18:02

The Oracle error **ORA-01187** occurs when there is an inconsistency between data files and redo logs. The full error message is:

ORA-01187: cannot read from file string because it failed verification tests

Cause:

This error indicates that an attempt was made to read from a file that did not pass Oracle's integrity verification tests. This usually happens in the following scenarios:

1. **Corrupt or Missing Data File:** The data file being accessed may be missing, corrupted, or incorrectly restored.
2. **Mismatched Redo Logs and Data Files:** If a data file was restored from a backup that is not synchronized with the current redo logs, it may fail verification.
3. **Improper Media Recovery:** If an incomplete or incorrect recovery process was attempted, Oracle may detect inconsistencies between the redo logs and the restored data file.
4. **Hardware or Disk Issues:** If the underlying storage system has errors or corruption, Oracle may flag the file as unreadable.

Possible Solutions:

1. Check the Alert Log:

- Review the alert log (alert_SID.log) and trace files in the diag directory to get more details about the error.

2. Verify Data File Integrity:

- Run the following SQL query to check if the affected file is online:

```
SELECT file_name, status FROM dba_data_files;  
○ If the file is offline, try bringing it back online:  
  
ALTER DATABASE DATAFILE '<full_path_to_file>' ONLINE;  
○ If corruption is suspected, you can check for corruption using:
```

```
SELECT * FROM V$DATABASE_BLOCK_CORRUPTION;
```

3. Restore and Recover the Affected File:

- If the file is missing or corrupted, restore it from a valid backup.
- Apply redo logs using **media recovery**:

```
RECOVER DATAFILE '<full_path_to_file>';  
○ If necessary, you may have to use:
```

```
ALTER DATABASE RECOVER AUTOMATIC;
```

4. Check the Redo Logs:

- If the redo logs are out of sync with the data files, you may need to perform recovery using archived redo logs.
- In worst-case scenarios, consider opening the database with:

```
ALTER DATABASE OPEN RESETLOGS;
```

(Warning: This resets the redo logs and should be used only if absolutely necessary.)

5. Check for Hardware Issues:

- If file corruption is suspected due to disk issues, check the disk health and consider moving the affected file to a different storage location.

dlopen issues on AIX - olit

22 February 2025 11:02

On AIX, the RTLD_LAZY option in dlopen() is not supported the same way it is on Linux. AIX primarily uses RTLD_NOW for immediate symbol resolution. Instead of RTLD_LAZY, you may need to use RTLD_MEMBER or RTLD_GLOBAL depending on your use case.

Recommended Options for dlopen() on AIX:

1. Use RTLD_NOW (default on AIX):

```
void *handle = dlopen("mylib.so", RTLD_NOW);  
    o Ensures all symbols are resolved immediately.
```

2. Use RTLD_MEMBER for Archives (.a files):

```
o If your shared library is inside an archive (.a), you need RTLD_MEMBER:  
    void *handle = dlopen("libmylib.a(mylib.so)", RTLD_NOW | RTLD_MEMBER);
```

3. Use RTLD_GLOBAL if symbols should be available to other shared objects:

```
void *handle = dlopen("mylib.so", RTLD_NOW | RTLD_GLOBAL);
```

4. Enable Runtime Linking (-brtl) at Compilation:

If you compile with -brtl, the dynamic linker behaves more like Linux.

Example:

```
ibm-clang++_r -o myapp myapp.cpp -Wl,-brtl -ldl
```

Since RTLD_LAZY is not well-supported on AIX, your best bet is to use RTLD_NOW and ensure dependencies are properly linked at load time.

Alternative:

If you need lazy symbol resolution like RTLD_LAZY, you might try:

- Using -brtl (Runtime Linking) during compilation:

```
nginx  
CopyEdit  
xlc-brtl -o myprogram myprogram.c -L. -lmylib
```

This allows more flexibility in symbol resolution.

=====

CHECK_POLICY on MSSQL for adhering to the windows password policy

21 February 2025 18:22

In **Microsoft SQL Server**, the **CHECK_POLICY** option is used when creating or altering SQL Server-authenticated logins. It enforces the **Windows password policies** on the login, such as **password complexity, expiration, and account lockout policies**.

❖ Syntax

When creating a new SQL-authenticated login:

```
sql
CopyEdit
CREATE LOGIN [your_login]
WITH PASSWORD = 'YourSecurePassword',
CHECK_POLICY = ON;
Or when altering an existing login:
```

```
sql
CopyEdit
ALTER LOGIN [your_login] WITH CHECK_POLICY = ON;
```

❖ Effects of CHECK_POLICY

Setting Effect

- | | |
|-----|---|
| ON | Enforces Windows security policies (password complexity, expiration, and lockout) on the login. |
| OFF | Disables enforcement of Windows security policies for the login. |

❖ Checking the Current Setting

To check whether CHECK_POLICY is enabled for a login:

```
sql
CopyEdit
SELECT name, is_policy_checked
FROM sys.sql_logins
WHERE name = 'your_login';
• If is_policy_checked = 1, the policy is enforced.
• If is_policy_checked = 0, the policy is not enforced.
```

❖ Key Considerations

- **CHECK_POLICY = ON** is recommended for security to enforce strong password policies.
- If **CHECK_POLICY = OFF**, the login is **not subject to password complexity rules, expiration, or account lockouts**.
- If **CHECK_EXPIRATION = ON**, the password will expire based on Windows policies (only valid if **CHECK_POLICY = ON**).

"Scan for Startup Procs" option in MSSQL

21 February 2025 18:17

In **Microsoft SQL Server (MSSQL)**, the "Scan for Startup Procs" option determines whether SQL Server should scan for and automatically execute **stored procedures marked to run at startup** when the SQL Server instance starts.

Key Details:

- **Startup Procedures:** Some stored procedures can be configured to run automatically at server startup using the `sp_procoption` system stored procedure.
- **Purpose:** This option ensures that SQL Server checks for such procedures and executes them when the service starts.
- **Configuration:** It can be enabled or disabled via system settings.

How to Enable or Disable It:

You can check and change this setting using the following commands:

Check Current Setting

```
sql  
CopyEdit  
EXEC sp_configure 'show advanced options', 1;  
RECONFIGURE;  
EXEC sp_configure 'scan for startup procs';
```

Enable It

```
sql  
CopyEdit  
EXEC sp_configure 'scan for startup procs', 1;  
RECONFIGURE;
```

Disable It

```
sql  
CopyEdit  
EXEC sp_configure 'scan for startup procs', 0;  
RECONFIGURE;
```

Use Cases:

- **Automating Tasks:** Useful for executing specific administrative tasks, such as logging startup events, configuring settings, or starting background jobs.
- **Monitoring & Maintenance:** You can use startup procedures to initialize monitoring scripts or check database integrity.
- **Custom Business Logic:** Some applications may require running certain business rules at startup.

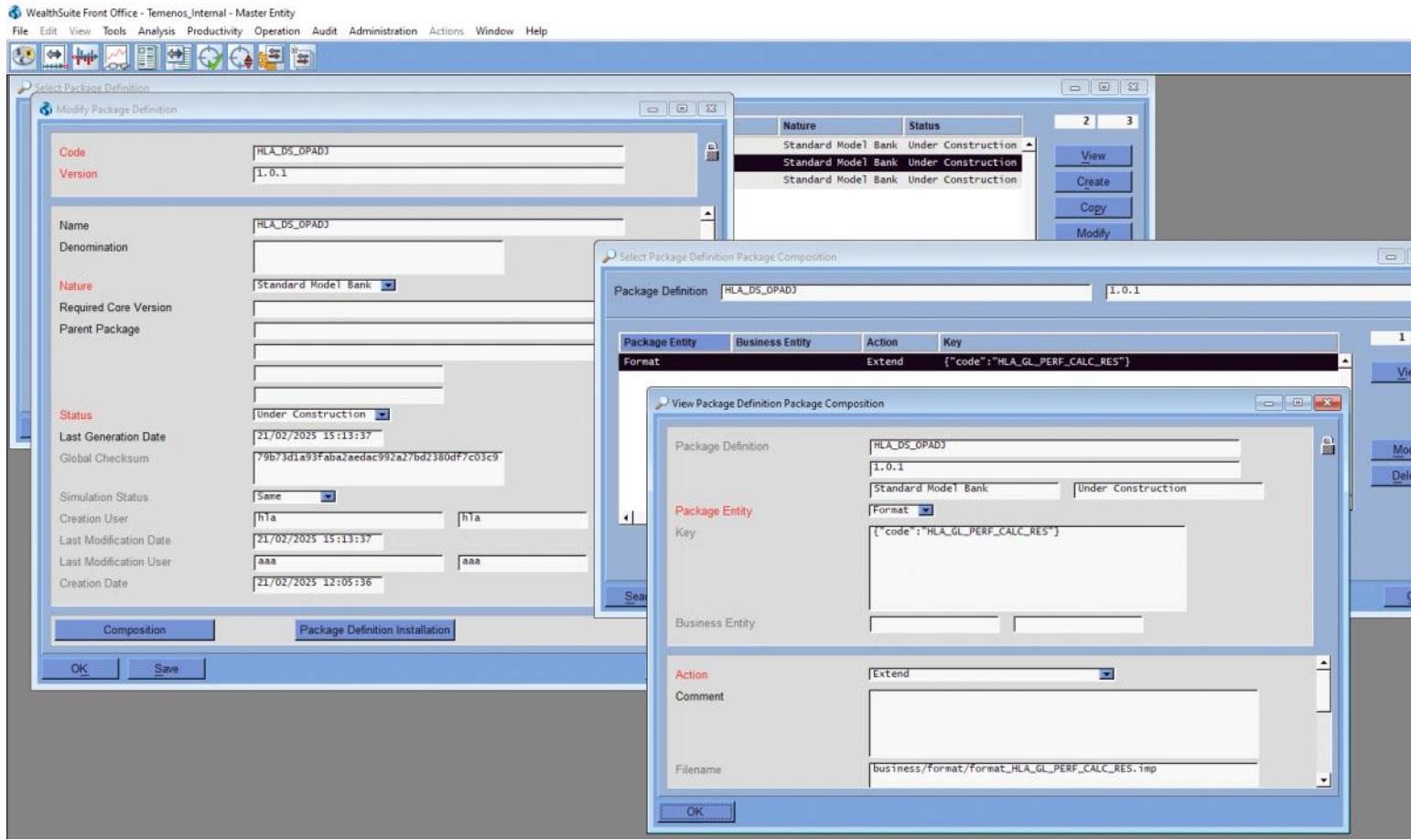
Potential Risks:

- **Performance Impact:** If a startup procedure takes too long, it may delay SQL Server startup.
- **Errors at Startup:** A faulty procedure can cause startup failures or unexpected behavior.
- **Security Risks:** Running arbitrary procedures at startup might pose security vulnerabilities if not carefully managed.

Packager - Definition, generation

21 February 2025 15:14

Adding the package, definition



```
tapt24@bnglxscb01.temenosgroup.com:/oams/sd_e2e_env/aaa/current> aaa PCKG -p HLA_DS_OPADJ -v 1.0.1 -d . -f Export.zip
```

```
AAAHOME is /oams/sd_e2e_env/aaa/current
Executing /oams/sd_e2e_env/aaa/current/bin/Linux/aaa_package_generator.sh -p
Start the package generation process at 2025/02/21 15:30:737169
AAAHOME is /oams/sd_e2e_env/aaa/current
Executing /oams/sd_e2e_env/aaa/current/bin/Linux/aaa_package_extractor.sh -pHLA_DS_OPADJ
```

Start the package extraction process for package HLA_DS_OPADJ with version 1.0.1.

Extracting Entity=format

Creating file: ./HLA_DS_OPADJ/business/format/format_HLA_GL_PERF_CALC_RES.imp

Package composition of HLA_DS_OPADJ with version 1.0.1 successfully extracted.

Please refer to log /oams/sd_e2e_env/aaa/current/pck(mb)/log/package_extractor_20250221T151332.log or /oams/sd_e2e_env/aaa/current/tmp/package_extractor/package_extractor.log for details

```
Extraction done in 8 seconds
AAAHOME is /oams/sd_e2e_env/aaa/current
Executing /oams/sd_e2e_env/aaa/current/bin/Linux/aaa_compress.sh .
```

Package HLA_DS_OPADJ has been zipped into /oams/sd_e2e_env/aaa/current/tmp/package_generator/zip/HLA_DS_OPADJ_1.0.1.zip

Zipped package HLA_DS_OPADJ has been copied to Export.zip

Package(s) successfully generated at 2025/02/21 15:30:737169.

Installation of oracle instant client

20 February 2025 11:45

Step 1: Download Oracle Instant Client

1. Go to the [Oracle Instant Client download page](#).
2. Select the version compatible with your Oracle database (e.g., 19c, 21c).
3. Download the **Basic Package** (instantclient-basic-windows.x64-<version>.zip).
4. Download the **ODBC Package** (instantclient-odbc-windows.x64-<version>.zip).
5. (Optional) Download the **SQL*Plus Package** if you need command-line access.

Step 2: Install Oracle Instant Client

1. Extract the downloaded ZIP files to a folder, e.g., C:\oracle\instantclient_19_8\.
2. Add the folder to the system PATH:
 - o Open **System Properties** → **Advanced** → **Environment Variables**.
 - o Under **System variables**, find **Path**, click **Edit**, and add C:\oracle\instantclient_19_8\.

Step 3: Install the ODBC Driver

1. Open **Command Prompt (Run as Administrator)**.
2. Navigate to the Instant Client folder:

```
bash  
CopyEdit  
cd C:\oracle\instantclient_19_8
```

3. Run the following command to install the ODBC driver:

```
CopyEdit  
odbc_install.exe  
o You should see a success message: Oracle ODBC Driver for Instant Client is installed.
```

Step 4: Configure ODBC Data Source (DSN)

1. Open **ODBC Data Source Administrator** (odbcad32.exe):
 - o For **64-bit ODBC**, use C:\Windows\System32\odbcad32.exe.
 - o For **32-bit ODBC**, use C:\Windows\SysWOW64\odbcad32.exe.
2. Go to the **System DSN** tab and click **Add**.
3. Select **Oracle in instantclient_<version>** and click **Finish**.
4. Fill in the connection details:
 - o **Data Source Name (DSN)**: A name for your DSN (e.g., OracleDB).
 - o **TNS Service Name**: Enter the TNS alias or EZConnect string (e.g., //hostname:port/service_name).
 - o **User ID**: Your Oracle username.
5. Click **Test Connection**, enter the password, and verify the connection.
6. Click **OK** to save the DSN.

Step 5: Verify the Setup

1. In **ODBC Data Source Administrator**, select your DSN and click **Configure**.
2. Click **Test Connection**, enter credentials, and confirm success.

Troubleshooting

- If odbc_install.exe does not run, ensure **Microsoft Visual C++ Redistributable** is installed (Download).
- If **TNS Service Name not found**, check that tnsnames.ora is properly configured or use an **EZConnect string**.

Steps to Enable Windows Authentication in SQL Developer

1. **Install Oracle Client (Full or Instant Client)**
 - o Download and install the **Oracle Instant Client** (Basic + ODBC + SQL*Plus) from [Oracle's official site](#).
 - o Ensure it's the same version as your Oracle database.
 - o Add the installation path (e.g., C:\oracle\instantclient_19_12) to the **System Environment Variable PATH**.
2. **Configure SQLNET.ORA & TNSNAMES.ORA**
 - o Locate the sqlnet.ora file (found in NETWORK\ADMIN under your Oracle client directory).
 - o Add the following line:

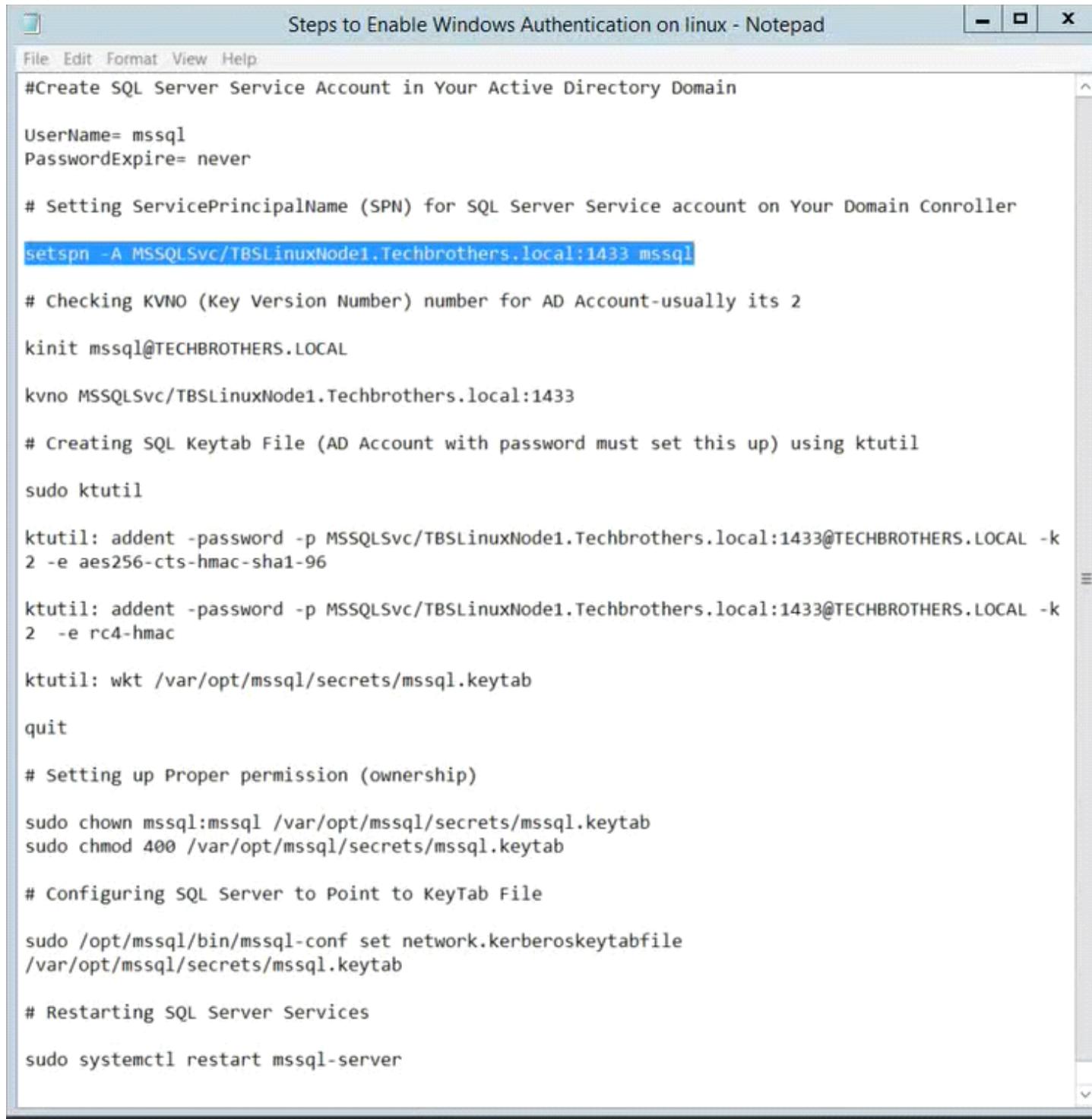
```
plaintext  
CopyEdit  
SQLNET.AUTHENTICATION_SERVICES = (NTS)
```
 - o Ensure tnsnames.ora has an entry for your database.
3. **Set Up SQL Developer to Use OCI Driver**
 - o Open SQL Developer.
 - o Go to **Tools** → **Preferences** → **Database** → **Advanced**.
 - o Under "Use OCI/Thick driver", check "Use OCI/Thick".
 - o Set **OCI Library Path** to your Oracle Instant Client directory (e.g., C:\oracle\instantclient_19_12).
 - o Restart SQL Developer.
4. **Create a New Connection**
 - o **Username**: Leave blank or use /
 - o **Password**: Leave blank
 - o **Hostname/SID**: Use your TNS alias or database details.
 - o **Authentication Type**: Choose "Kerberos" (if available) or leave default.
 - o Click **Test and Connect**.

Alternative Method: Using Kerberos Authentication

If your organization uses **Kerberos authentication**, configure your krb5.conf file and set SQLNET.AUTHENTICATION_SERVICES = (KERBEROS5, NTS). You may also need a valid Kerberos ticket using kinit.

MS SQL Server - Windows authentication

19 February 2025 17:19



The screenshot shows a Notepad window with the title "Steps to Enable Windows Authentication on linux - Notepad". The window contains a shell script with the following content:

```
#Create SQL Server Service Account in Your Active Directory Domain
UserName= mssql
PasswordExpire= never

# Setting ServicePrincipalName (SPN) for SQL Server Service account on Your Domain Controller
setspn -A MSSQLSvc/TBSLinuxNode1.Techbrothers.local:1433 mssql

# Checking KVNO (Key Version Number) number for AD Account-usually its 2
kinit mssql@TECHBROTHERS.LOCAL

kvno MSSQLSvc/TBSLinuxNode1.Techbrothers.local:1433

# Creating SQL Keytab File (AD Account with password must set this up) using ktutil
sudo ktutil

ktutil: addent -password -p MSSQLSvc/TBSLinuxNode1.Techbrothers.local:1433@TECHBROTHERS.LOCAL -k
2 -e aes256-cts-hmac-sha1-96

ktutil: addent -password -p MSSQLSvc/TBSLinuxNode1.Techbrothers.local:1433@TECHBROTHERS.LOCAL -k
2 -e rc4-hmac

ktutil: wkt /var/opt/mssql/secrets/mssql.keytab

quit

# Setting up Proper permission (ownership)
sudo chown mssql:mssql /var/opt/mssql/secrets/mssql.keytab
sudo chmod 400 /var/opt/mssql/secrets/mssql.keytab

# Configuring SQL Server to Point to KeyTab File
sudo /opt/mssql/bin/mssql-conf set network.kerberoskeytabfile
/var/opt/mssql/secrets/mssql.keytab

# Restarting SQL Server Services
sudo systemctl restart mssql-server
```

GUI Does not works connecting sybase DB

14 February 2025 19:36

/oams/d_syb_25_2/aaa/current/distribution/open_client/Linux/locales/message/us_english
/oams/d_syb_25_2/aaa/current/distribution/open_client/Linux/charsets/iso_1
/oams/d_syb_25_2/aaa/current/distribution/open_client/Linux/charsets/utf8

Above folders and /oams/d_syb_25_2/aaa/current/distribution/open_client/Linux/locales/locales.dat are causing the error. Replaced these alone from the base sybase path and its working fine.

in locales.dat could see an entry

locale = C, us_english, iso_1

is missing in [NT] session .

Copy this line from other section to [NT] as well. Then GUI will come up.

From <<https://jira.temenos.com/browse/PMSTA-65903>>

Sybase: Tracking login trigger when user gets locked

11 February 2025 11:12

Approach 1: Use Auditing to Track User Lock Events

Sybase ASE provides an **auditing mechanism** that can track security-related events, including user account locking.

Steps:

1. **Enable Auditing** (if not already enabled):

```
sql
CopyEdit
sp_configure 'audit', 1
```

2. **Enable Login Lock Auditing**:

```
sql
CopyEdit
sp_audit 'logins', 'all', 'all', 'on'
  ○ This audits all login-related events, including user locks.
```

3. **View Locked Users**: You can check the locked users using the **syslogins** system table:

```
sql
CopyEdit
SELECT name, status
FROM master..syslogins
WHERE status & 1024 = 1024; -- 1024 indicates a locked user
```

4. **Check Audit Logs for Lock Events**:

```
sql
CopyEdit
SELECT event, loginname, datetime
FROM sybsecurity..sysaudits
WHERE event IN (58, 59); -- 58: Failed login, 59: Locked account
```

Approach 2: Create a Scheduled Job to Monitor Locked Users

If you want to take action when a user is locked, you can create a stored procedure that runs periodically to check locked users and log the event or send notifications.

Example Stored Procedure to Log Locked Users:

```
sql
CopyEdit
CREATE PROCEDURE track_locked_users
AS
BEGIN
    DECLARE @username VARCHAR(50)
    DECLARE locked_users CURSOR FOR
        SELECT name FROM master..syslogins WHERE status & 1024 = 1024
    OPEN locked_users
    FETCH NEXT FROM locked_users INTO @username
    WHILE @@sqlstatus = 0
        BEGIN
            INSERT INTO user_lock_log (username, lock_time)
            VALUES (@username, GETDATE())
            FETCH NEXT FROM locked_users INTO @username
        END
    CLOSE locked_users
    DEALLOCATE CURSOR locked_users
END
Then, schedule this procedure using event scheduling (e.g., using a job in Sybase Job Scheduler or an external cron job).
```

Approach 3: Custom Login Trigger

If you want to track failed login attempts leading to locks, you can use a **login trigger**.

Example Login Trigger:

```
sql
CopyEdit
CREATE TRIGGER login_monitor ON LOGIN
FOR LOGON
AS
```

```
BEGIN
    DECLARE @username VARCHAR(50)
    SET @username = ORIGINAL_LOGIN()
    -- Check if the user is locked
    IF EXISTS (SELECT 1 FROM master..syslogins WHERE name = @username AND status & 1024 = 1024)
    BEGIN
        INSERT INTO user_lock_log (username, lock_time)
        VALUES (@username, GETDATE())
    END
END
```

However, Sybase ASE does not have native **LOGON triggers**, so this may need to be handled via a workaround using auditing.

Conclusion

- **Best Practice:** Use **auditing** (**sp_audit**) to log user lock events.
- **Automated Tracking:** Use a scheduled procedure to check **syslogins** for locked users.
- **Workaround for Login Trigger:** Manually log failed login attempts and check lock status.

Posgresql - CONNECTION_BAD - connectivity issues

06 February 2025 17:15

In PostgreSQL, the CONNECTION_BAD status indicates that the connection to the database server has failed, or that there is an issue preventing the application from properly establishing a connection to the server.

Here are common reasons why the CONNECTION_BAD status might occur:

1. Invalid Connection Parameters:

- Incorrect username, password, or database name.
- Invalid host or port specified in the connection string.

2. Network Issues:

- The PostgreSQL server is unreachable due to network problems.
- Firewall rules or security settings may be blocking the connection.

3. Server Not Running:

- The PostgreSQL server might be down or not started.
- The server might have crashed or is in a failed state.

4. Max Connections Reached:

- PostgreSQL's maximum number of allowed connections has been exceeded.
- You can adjust the max_connections setting in the PostgreSQL configuration (postgresql.conf).

5. TLS/SSL Configuration Problems:

- If you're using SSL for the connection, there may be misconfigured SSL certificates or incompatible protocols.

6. Corrupted Connection Pooling:

- If you're using a connection pooler like **pgbouncer** or **pgpool**, it might be having trouble managing connections due to configuration or resource issues.

7. Database Version Mismatch:

- If the client library (like libpq or a specific PostgreSQL client) is not compatible with the PostgreSQL server version, this can lead to connection failures.

To diagnose the issue:

- Check the PostgreSQL logs for any error messages.
- Ensure that the PostgreSQL service is running (pg_ctl status or systemctl status postgresql).
- Verify the network and firewall settings.
- Check if the connection parameters in your client code are correct.

If you still encounter the issue, feel free to provide more details, and I can help you troubleshoot further!

user locked error - gui

06 February 2025 15:18

For technical user, system checks if the current user is technical user by calling the function **get_connected_appl_user_id()**

appl_user\$vw

```
where (((SYS_CONTEXT('TASC_CONTEXT', 'data_profile_id') is null) and
exists ( select 1 from AAAMAINDB.data_prof_compo dpc1
          where ((dpc1.data_profile_id = (select curr_usr.data_profile_id from AAAMAINDB.appl_user curr_usr where curr_usr.id = AAAMAINDB.get_connected_appl_user_id())))
          and ((E.data_secu_prof_id = dpc1.data_secu_prof_id) or
               (E.data_secu_prof2_id = dpc1.data_secu_prof_id)))))
or
((SYS_CONTEXT('TASC_CONTEXT', 'data_profile_id') is not null) and
exists ( select 1 from AAAMAINDB.data_prof_compo dpc1, AAAMAINDB.data_prof_compo dpc2
          where ((dpc1.data_profile_id = cast(SYS_CONTEXT('TASC_CONTEXT', 'data_profile_id') as number(14,0)))
          and (dpc2.data_profile_id = (select curr_usr.data_profile_id from AAAMAINDB.appl_user curr_usr where curr_usr.id = AAAMAINDB.get_connected_appl_user_id())))
          and ((E.data_secu_prof_id = dpc2.data_secu_prof_id) or
               (E.data_secu_prof2_id = dpc2.data_secu_prof_id))))
```

Otf-shell commands and usage

05 February 2025 11:51

```
:> help
name: help
group: SHELL
description: Provides information about available commands and command-line options
usage: help [-g <group>] [-u <command>] [-v <command>]
```

Options

```
-g <group> Displays the commands belonging to given group
-u <command> Displays the usage of a command
-v <command> Displays the version information of a command
```

Command-line usage

```
otf-shell.sh(.cmd) [LOGLEVEL_OPT] [LOGIN_OPT] -h      : prints the command-line help
otf-shell.sh(.cmd) [LOGLEVEL_OPT] [LOGIN_OPT] -h      : prints the command-line help
otf-shell.sh(.cmd) [LOGLEVEL_OPT] [LOGIN_OPT] -f filename : execute the list of commands present in filename
otf-shell.sh(.cmd) [LOGLEVEL_OPT] [LOGIN_OPT] -f filename -fail : execute the list of commands present in filename and exit after the first failing command
otf-shell.sh(.cmd) [LOGLEVEL_OPT] [LOGIN_OPT] command & param : execute the command with its parameters, command being one of the described commands
otf-shell.sh(.cmd) [LOGLEVEL_OPT] [LOGIN_OPT]           : start the interactive shell
LOGLEVEL_OPT = -l loglevel : the log level used by otf-shell (similar to 'log -l loglevel' command)
LOGIN_OPT = -U user [-P pwd] : the user and optional password for the security context
```

Available commands:

INSTALLATION

edm	Generates an EDM file for the OData producer
generate-all-jar	Generate all.jar library in libapp, webDomain/lib, EAR/APP-INF/lib

if expanded.

installation-report	Create an installation report.
xsp-compile	Compiles XSPs located in wuiblock for the whole application.

SHELL

call	Execute the list of commands present in filename.
error-code	Store the otf-shell return code in a file
exec	Launch process
exit	Exits from the shell
help	Provides information about available commands and command-line options
history	View command history or call a command from history.
log	Controls or display the log level
login	Prompts for credentials and authenticates the user
logout	Logs out the currently authenticated user
print	Prints a message to the output
process	Manage a generic Java Process that is declared in otf-shell-processes.xml
quit	Exits from the shell
set	Creates, update or delete a system property
who	Prints the currently authenticated user

ADMINISTRATION

audit-archive	Archives old audit event data to filesystem
audit-purge	Purge old audit data
cancel-job	Cancel jobs
count-job	Count the number of instances of a certain type of job (see parameters)
engine	Manage the engines
job-launcher-config	Show information about JobLauncher configuration
job-launcher-stats	Display statistics of the internal queues and threads of job-launcher.
list-jobs	Display list of jobs.
man	Prints JAR files manifests
monitor-job	Display the current information of a job given its unique ID
relaunch-job	Relaunch a job to the BPI batch manager given its id. It must be persistent to support this feature.
remote	Executes a command remotely on the server JVM.
reporting-shell	Launch a reporting shell command with options
submit-bpi-job	Submit a job to the BPI batch manager given its name or URL
wait-job	Wait until there is a number of instances for a job type (see parameters)
xdi	Imports xdi command. Command file have to end with ".xml"

CONFIGURATION

cache	Cache Monitoring and Manipulation
-------	-----------------------------------

config List configuration modules and related dynamic cfg-patches.
fin-srv-ds Provides commands to manage Financial servers. Supports argument
 'list', 'add' and 'remove'
fin-srv-pool Provides commands to manage Financial pools.
password Change passwords
registry Describe registry content
scr Scrambles or unscrambles a given string using the currently configured
 scrambler
spring Describe where spring beans are declared
xmlvalidate Validates all the xml files in a given list of folders

APPLICATION_SERVER

check Check some conditions (for example socket) and return given error
 code.
killServer Force application server shutdown using kill 15/9 signals
resource Check resource availability (for example db, as, engine, etc..)
 and return given error code.
startServer Start Weblogic application server
stopServer Stop Weblogic application server

OTHERS

cleandbcol Drop OCS database columns with the extension: _\$nu
validate-db Checks database data model against regular model for installed
 ocs version

Fusion - Forcing local finserver - debugging in visual studio

22 January 2025 22:13

you could set max_fusion_n = 1 on your server

then manually update lock_portfolio to pre-lock the portfolio before you cause the event_scheduler to be populated

set lock_f=1 server = your server rank = 1

server needs to be running already. then when it tries to lock it will find it always has it

Modify the below proc to select the records:

```
begin sel_all_event_sched_top_n(110 ,13004 ,1 ,1 ,9 ,10 ,NULL ); end;
```

fuscluster.cpp

```
void FusionCluster::getEventSchedTopN(DbiConnectionHelper & connHelper, int fetchSize, bool  
isBatchMode, bool & isEventSchedActive,  
FusionTimer & fusionTimer, DBA_DYNFLD_STP ** eventSchedObjTab, int * eventSchedObjNb)
```

Fusion Checks and Correction

20 January 2025 18:50

/oams/CIP_LX_ORA_JB1/aaahome/ddl/bin/chk_fusion_ol.sh
/oams/CIP_LX_ORA_JB1/aaahome/ddl/bin/chk_fusion.sh

Sqlserver end of licensing

20 January 2025 11:18

[Microsoft SQL Server | endoflife.date](https://endoflife.date/)

<https://endoflife.date/mssqlserver>

The screenshot shows the Microsoft SQL Server page on the endoflife.date website. The page title is "Microsoft SQL Server". It includes a sidebar with links to various software packages like Looker, Lua, Mageia, Magento, Mandrel, MariaDB, Mastodon, Matomo, Mattermost, Mautic, MediaWiki, Meilisearch, Memcached, Micronaut Framework, Microsoft .NET, Microsoft .NET Framework, Microsoft Build of OpenJDK, Microsoft Exchange, Microsoft Nano Server, Microsoft Office, Microsoft PowerShell, Microsoft SharePoint, Microsoft SQL Server, Microsoft Surface, Microsoft Visual Studio, Microsoft Windows, and Credits. The main content area displays a table with columns for Release, Released, Active Support, Security Support, Extended Security Updates, and Latest. The "Microsoft SQL Server" row shows it was released in 2012-SP4, last updated on 17 January 2025, and has ended support. The "Latest" column for Microsoft SQL Server lists "14.0.3485.1 CU31+GDR (14 Nov 2024)".

Release	Released	Active Support	Security Support	Extended Security Updates	Latest
2022	2 years ago (16 Nov 2022)	Ends in 2 years and 11 months (11 Jan 2028)	Ends in 7 years and 11 months (11 Jan 2033)	Unavailable	16.0.4175.1 CU17 (16 Jan 2025)
2016 SP3	3 years and 4 months ago (15 Sep 2021)	Ends in 1 year and 5 months (14 Jul 2026)	Ends in 1 year and 5 months (14 Jul 2026)	Unavailable	13.0.6455.2 GDR (12 Nov 2024)
2019	5 years ago (04 Nov 2019)	Ends in 1 month and 1 week (28 Feb 2025)	Ends in 4 years and 11 months (08 Jan 2030)	Unavailable	15.0.4415.2 CU30 (12 Dec 2024)
2014-SP3	6 years ago (30 Oct 2018)	Ended 5 years ago (09 Jul 2019)	Ended 6 months ago (09 Jul 2024)	Ends in 2 years and 5 months (12 Jul 2027)	12.0.6449.1 CU4+GDR (10 Oct 2023)
2016-SP2	6 years and 9 months ago (24 Apr 2018)	Ended 2 years and 3 months ago (11 Oct 2022)	Ended 2 years and 3 months ago (11 Oct 2022)	Unavailable	13.0.5093.40 CU17+GDR (09 Jul 2019)
2012-SP4	7 years ago (05 Oct 2017)	Ended 2 years and 6 months ago (12 Jul 2022)	Ended 2 years and 6 months ago (12 Jul 2022)	Ends in 5 months and 2 weeks (08 Jul 2025)	11.0.7512.11 GDR (14 Feb 2023)
2017	7 years ago (29 Sep 2017)	Ended 2 years and 3 months ago (11 Oct 2022)	Ends in 2 years and 8 months (12 Oct 2027)	Unavailable	14.0.3485.1 CU31+GDR (14 Nov 2024)

Ddlgen using system tables, procedures, queries - oracle/sybase/sqlserver

15 January 2025 10:57

Ddligendbi.cpp:DdlGenDbi::getAllDdlObjListFromDb

Sybase:

```
case DdlObj_Constraint:
    cmd << "select tb.name, so.name, comm.text "
    << "from sysobjects so "
    << "inner join sysconstraints constr on so.id = constr.constrid "
    << "inner join sysobjects tb on tb.id = constr.tableid "
    << "inner join syscomments comm on constr.constrid = comm.id "
    << "where so.type = '" << typeStr << "' and tb.name = '" << tableSqlName << "'';

    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(tableName);
    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(objName);
    requestHelper.addNewOutputData(String1000Type);
    requestHelper.getBindVariablePtr(searchCondition);

    break;

case DdlObj_PrimaryKey:
    cmd << "select so1.name, sc1.name from sysobjects so1, syscolumns sc1, syskeys sk"
        << " where so1.id=sc1.id and so1.id=sk.id and sc1.colid=sk.key1 and so1.type=''" << typeStr << "' and sk.type = 1";

    if (tableSqlName.empty() == false)
    {
        cmd << " and so1.name=''" << tableSqlName << "'";
    }

    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(tableName);
    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(colName);

case DdlObj_ForeignKey:
    cmd << "select "
        << "so.name, related_object = rso.name, object_keys = sc1.name "
        << "from sysobjects so, syskeys k, master.dbo.spt_values v, sysobjects rso, syscolumns sc1, syscolumns rsc1 "
        << "where k.type = v.number and v.type = 'K' "
        << "and k.id = so.id "
        << "and so.name = '" << tableSqlName << "' "
        << "and rso.id = k.depobj "
        << "and sc1.id = so.id and sc1.colid = k.key1 "
        << "and rsc1.id = rso.id and rsc1.colid = k.depkey1";

    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(tableName);
    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(objName);
    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(colName);
    break;

case DdlObj_ReversedForeignKey:
    break;

case DdlObj_SProc:
case DdlObj_SpecSProc:
case DdlObj_Func:
case DdlObj_View:
    cmd << "select so.name from sysobjects so where so.type = '" << typeStr + "'';

    if (ddlObjSqlName.empty() == false)
    {
        cmd << " and so.name=''" << ddlObjSqlName << "'";
    }

    requestHelper.addNewOutputData(LongSysnameType);
    requestHelper.getBindVariablePtr(objName);
    break;
    cmd << "select so.name from sysobjects so where so.type = '" << typeStr + "'";
```

```

if (tableSqlName.empty() == false)
{
    cmd << " and so.name=" << tableSqlName << "";
}

requestHelper.addNewOutputData(LongSysnameType);
requestHelper.getBindVariablePtr(tableName);
break;

case DdlObj_Trigger:
case DdlObj_TriggerUdField:
    cmd << "select tb.name, tr.name from sysobjects tr inner join sysobjects tb on tr.deltrig = tb.id where tr.type = 'TR';

if (tableSqlName.empty() == false)
{
    cmd << " and tb.name=" << tableSqlName << "";
}
else if (reqDdlObjEn == DdlObj_TriggerUdField)
{
    cmd << " and tb.name like = 'ud\\_';
}
else
{
    cmd << " and tb.name not like = 'ud\\_';
}

requestHelper.addNewOutputData(LongSysnameType);
requestHelper.getBindVariablePtr(tableName);
requestHelper.addNewOutputData(LongSysnameType);
requestHelper.getBindVariablePtr(objName);
break;

```

Oracle:

```

requestHelper.setCommand(
    "select lower(c1.table_name), lower(c1.constraint_name), lower(cc1.column_name), c1.search_condition, c1.validated"
    " from all_constraints c1"
    " inner join all_cons_columns cc1 on cc1.owner = c1.owner and c1.constraint_name = cc1.constraint_name"
    " where c1.owner = ?"
    " and c1.table_name = ?"
    " and c1.constraint_type = 'C'"
    " and c1.generated = 'USER NAME'"
    " order by c1.constraint_name, cc1.position");

    " from all_constraints c1"
    " inner join all_cons_columns cc1 on cc1.owner = c1.owner and c1.constraint_name = cc1.constraint_name"
    " where c1.owner = ?";

if (tableSqlName.empty() == false)
{
    requestHelper.addNewParamString(upper(tableSqlName), String1000Type);
    cmd << " and c1.table_name = ?";
}

cmd << " and c1.constraint_type = 'P'"
    " order by c1.constraint_name, cc1.position";

case DdlObj_ForeignKey:
    requestHelper.addNewParamString(upper(database), String1000Type);
    requestHelper.addNewParamString(upper(tableSqlName), String1000Type);

requestHelper.setCommand(
    "select lower(c1.table_name), lower(c1.constraint_name), lower(c2.table_name), lower(cc1.column_name), c1.delete_rule, c1.validated"
    " from all_constraints c1"
    " inner join all_constraints c2 on c1.r_owner = c2.owner and c1.r_constraint_name = c2.constraint_name"
    " inner join all_cons_columns cc1 on cc1.owner = c1.owner and c1.constraint_name = cc1.constraint_name"
    " where c1.owner = ?"
    " and c1.table_name = ?"
    " and c1.constraint_type = 'R'"
    " and c1.generated = 'USER NAME'"
    " order by c1.constraint_name, cc1.position");

    "select lower(contr_p.table_name), lower(constr_fk.constraint_name), lower(constr_fk.table_name), constr_fk.delete_rule, constr_fk.validated"
    " from all_constraints contr_p"
    " inner join all_constraints constr_fk on contr_p.constraint_name = constr_fk.r_constraint_name and contr_p.owner = constr_fk.owner and constr_fk.constraint_type = 'R'"
    " where contr_p.owner = ? and contr_p.table_name = ? and contr_p.constraint_type = 'P'";

```

```
case DdlObj_Table:  
    requestHelper.addNewParamString(upper(database), String1000Type);  
    requestHelper.addNewParamString(typeStr, String1000Type);  
  
    cmd << "select lower(object_name) from all_objects where owner = ? and object_type = ?";  
  
    if (tableSqlName.empty() == false)  
    {  
        requestHelper.addNewParamString(upper(tableSqlName), String1000Type);  
        cmd << " and object_name = ?";  
    }  
}
```

Solving Oracle enq: TM Contention Waits Events

14 January 2025 11:09

<https://www.dnsstuff.com/solving-oracle-enq-tm-contention-waits-dr01#:~:text=Waits%20on%20enq%3A%20TM%20E2%80%93%20contention,not%20have%20an%20associated%20index.>

Solving Oracle enq: TM Contention Wait Events

By Staff Contributor on November 20, 2022

Recently, I was assisting one of our customers for Oracle trying to diagnose sessions waiting on the "enq: TM – contention" event. The blocked sessions were executing simple INSERT statements similar to:

```
INSERT INTO supplier VALUES (:1, :2, :3);
```

Waits on enq: TM – contention indicate there are unindexed foreign key constraints. Reviewing the SUPPLIER table, we found a foreign key constraint referencing the PRODUCT table that did not have an associated index. This was also confirmed by the Top Objects feature of SolarWinds Database Performance Analyzer (DPA) for Oracle because all the time was associated with the PRODUCT table. We added the index on the column referencing the PRODUCT table and the problem was solved.

Finding the root cause of the enq: TM – contention wait event

After using DPA for Oracle's locking feature to find the blocking sessions, we found the real culprit. Periodically, as the company reviewed its vendor list, they "cleaned up" the SUPPLIER table several times a week. As a result, rows from the SUPPLIER table were deleted. Those delete statements were then cascading to the PRODUCT table and taking out TM locks on it.

Reproducing a typical problem that leads to this wait

This problem has a simple fix, but I wanted to understand more about why this happens. So I reproduced the issue to see what happens under the covers. I first created a subset of the tables from this customer and loaded them with sample data.

```
CREATE TABLE supplier
( supplier_id number(10) not null,
  supplier_name varchar2(50) not null,
  contact_name varchar2(50),
  CONSTRAINT supplier_pk PRIMARY KEY (supplier_id)
```

```
};

INSERT INTO supplier VALUES (1, 'Supplier 1', 'Contact 1');
INSERT INTO supplier VALUES (2, 'Supplier 2', 'Contact 2');
COMMIT;

CREATE TABLE product
( product_id number(10) not null,
product_name varchar2(50) not null,
supplier_id number(10) not null,
CONSTRAINT fk_supplier
FOREIGN KEY (supplier_id)
REFERENCES supplier(supplier_id)
ON DELETE CASCADE );
INSERT INTO product VALUES (1, 'Product 1', 1);
INSERT INTO product VALUES (2, 'Product 2', 1);
INSERT INTO product VALUES (3, 'Product 3', 2);
COMMIT;
```

I then executed statements similar to what we found at this customer:

```
User 1: DELETE supplier WHERE supplier_id = 1;
User 2: DELETE supplier WHERE supplier_id = 2;
User 3: INSERT INTO supplier VALUES (5, 'Supplier 5', 'Contact 5');
```

Similar to the customer's experience, User 1 and User 2 hung waiting on "enq: TM – contention". Reviewing information from V\$SESSION I found the following:

```
SELECT l.sid, s.blocking_session blocker, s.event, l.type, l.lmode, l.request, o.object_name, o.object_type
FROM v$lock l, dba_objects o, v$session s
WHERE UPPER(s.username) = UPPER('&User')
AND l.id1 = o.object_id (+)
AND l.sid = s.sid
ORDER BY sid, type;
```

SID	BLOCK	EVENT	TYPE	MODE	REQ	OBJECT	OBJECT_TYPE
42		SQL*Net message from client	TM	3	0	PRODUCT	TABLE
42		SQL*Net message from client	TM	3	0	SUPPLIER	TABLE
42		SQL*Net message from client	TX	6	0		TABLE
54	42	enq: TM – contention	TM	3	0	SUPPLIER	TABLE
54	42	enq: TM – contention	TM	0	5	PRODUCT	TABLE
83	54	enq: TM – contention	TM	3	0	SUPPLIER	TABLE
83	54	enq: TM – contention	TM	0	2	PRODUCT	TABLE

Following along with the solution we used for our customer, we added an index for the foreign key constraint on the SUPPLIER table back to the PRODUCT table:

```
CREATE INDEX fk_supplier ON product (supplier_id);
```

When we ran the test case again everything worked fine. There were no exclusive locks acquired and hence no hanging. Oracle takes out exclusive locks on the child table, the PRODUCT table in our example, when a foreign key constraint is not indexed.

Sample query to find unindexed foreign key constraints

Now that we know unindexed foreign key constraints can cause severe problems, here is a script that I use to find them for a specific user (this can easily be tailored to search all schemas):

```
SELECT * FROM (
  SELECT c.table_name, cc.column_name, cc.position column_position
  FROM user_constraints c, user_cons_columns cc
  WHERE c.constraint_name = cc.constraint_name
  AND c.constraint_type = 'R'
  MINUS
  SELECT i.table_name, ic.column_name, ic.column_position
  FROM user_indexes i, user_ind_columns ic
  WHERE i.index_name = ic.index_name
)
ORDER BY table_name, column_position;
```

Related Posts

[How to Improve Query Performance in Oracle - Oracle Query Tuning](#)

[Oracle PL/SQL Lock Timer Wait Event](#)

[Oracle Log Buffer Space Wait Event](#)

Gatit - status return of the online importation - GATITSYNCMSG - UNIQUE_OUTPUT

05 January 2025 22:54

<http://rd.temenosgroup.com/browse/PMSTA-9585>

Gatit: Improvement of the status return of the importation.

Currently, the F2B/B2F online interface (called OMS for Order Management System) at Banque Cantonale Vaudoise experience several issues. One of the main issues we face is that in the B2F online interface the Map is not informed by the gatit when an import in Triple'A fails. The root causes of the failures are as of today:

1. Issues with Odyssey rolit under load ("unknown reason" or "parallel update" message in the logs)
2. Messages received in a wrong sequence from the back office (e.g. for order created in the back office, we receive sometime executions before the order creation message)

Most of those issues could find a nice handling if the Map is informed of the failure, as it would enable to inform the back-office of the failure and have it decide if the message should be resent.

On support side, we gave as advice to map the output files to check if the importation is correct or not. It has been refused by the customer and it's the reason why we've received a RFD attached to this JIRA.

From <<http://rd.temenosgroup.com/browse/PMSTA-9585>>

Currently, the F2B/B2F online interface (called OMS for Order Management System) at Banque Cantonale Vaudoise experience several issues. One of the main issues we face is that in the B2F online interface the Map is not informed by the gatit when an import in Triple'A fails. The root causes of the failures are as of today:

1. Issues with Odyssey rolit under load ("unknown reason" or "parallel update" message in the logs)
 2. Messages received in a wrong sequence from the back office (e.g. for order created in the back office, we receive sometime executions before the order creation message)
- Most of those issues could find a nice handling if the Map is informed of the failure, as it would enable to inform the back-office of the failure and have it decide if the message should be resent.
- Today, the only proposed way by Odyssey to detect importation failure is to parse the importation log. This is not an acceptable solution as:
3. It has a negative performance impact.
 4. It requires the client to develop a costly infrastructure to build exception handling for an Odyssey software component. Exception handling is a basic component of every standard software.
 5. There's no guarantee that the structure of logs are changing from one version to the other and that means that the custom Exception handling we would build is might be largely impacted at upgrades, without any automated procedure being provided by Odyssey.

Gatit adapter already allows the caller be informed on the result (technical) of the call to the import. The need is to enhance this return by optionally providing the 'business' results/errors e.g.
ERR 20 file <stdin>, line 45: Unresolved reference on 'portfolio' - code : 'code'

...

Please note that the items identified under 1 and 2 as root causes in the request, i.e.

6. Issues with Odyssey rolit under load ("unknown reason" or "parallel update" message in the logs)
 7. Messages received in a wrong sequence from the back office (e.g. for order created in the back office, we receive sometime executions before the order creation message)
- have already been discussed and explained and are not to be addressed by current development proposal.

Also the bank received OFT arguments favoring the log approach and is now aware that the GatewayPack solution is providing the necessary tools to explore and manipulate all logs. The decision of the implementation not to rely on the Gateway Pack is simply traded against the processing of the logs that now is to be assumed.

We are focusing on providing a feature to have business response not only logged (as currently) but also returned directly to the calling map and made available upon request and upon import completion.

The solution will allow the return of the importation success and error messages to the calling Datastage map in a synchronous way.

Basically, the map will call libgatit in an output card as before, then in a subsequent output card the map will be able to obtain the ERR/SUC messages generated by the previous import.

The libgatit library is modified as follows:

- The function who does the online import will also put the error and success messages returned by the online import into a buffer in memory
- A new function will be added who will be responsible, when called, to return all the messages found in memory

The map who uses libgatit as an adapter can either :

- work as before, and that will assure the backward compatibility
- define a new output card in order to use the new functionality. In this new output card, the error and success messages from the online importation are retrieved via the DataStage GET function. This output card should be executed, obviously, AFTER the output card who does the online importation.

Sybase commands - Query plans, execution plan

02 January 2025 17:05

<https://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.infocenter.dc36272.1572/html/commands/CHDGIFDG.htm>

Using set showplan with noexec

You can use **set noexec** with **set showplan** on to view a query plan without executing the query. For example, this query prints the query plan but also executes the queries, which might be time consuming:

```
set showplan on
go
select * from really_big_table
select * from really_really_big_table
go
```

However, if you include **set noexec**, you can view the query plan without running the query.

Stored procedures are compiled when they are first used, or if the resultant compiled plan is already in use by another session, so **set noexec** can have unexpected results, and Sybase® recommends that you use **set fmtonly on** instead. If you include a stored procedures inside another stored procedure, the second stored procedure is not run when you enable **set noexec**. For example, if you create two stored procedures:

```
create procedure sp_B
as
begin
    select * from authors
end
and
create procedure sp_A
as
begin
    select * from titles
    execute sp_B
end
```

Individually, their query plans look like this:

```
set showplan on
sp_B
QUERY PLAN FOR STATEMENT 1 (at line 1).
STEP 1
    The type of query is EXECUTE.
QUERY PLAN FOR STATEMENT 1 (at line 4).
```

STEP 1

```
The type of query is SELECT.
1 operator(s) under root
|ROOT:EMIT Operator (VA = 1)
|  |SCAN Operator (VA = 0)
|  | FROM TABLE
|  | titles
|  | Table Scan.
|  | Forward Scan.
|  | Positioning at start of table.
|  | Using I/O Size 2 Kbytes for data pages.
|  | With LRU Buffer Replacement Strategy for data pages.
```

If you enable **set noexec**:

```
set noexec on
go
set showplan on
go
exec proc A
go
```

Adaptive Server produces no **showplan** output for procedure *B* because **noexec** is enabled, so Adaptive Server is not actually executing or compiling procedure *B*, and does not print any **showplan** output. If **noexec** was not enabled, Adaptive Server would have compiled and printed plans for both *A* and *B* stored procedures.

But if you use **set ffmtonly on**:

```
use pubs2
go
create procedure sp_B
as
begin
    select * from authors
end
go
create procedure sp_A
as
begin
    select * from titles
    execute sp_B
end
go
set showplan on
go
set ffmtonly on
go
QUERY PLAN FOR STATEMENT 1 (at line 1).
```

STEP 1

The type of query is SET OPTION ON.

```
sp_B
go
```

QUERY PLAN FOR STATEMENT 1 (at line 1).

STEP 1

The type of query is EXECUTE.

QUERY PLAN FOR STATEMENT 1 (at line 4).

STEP 1

The type of query is SELECT.

1 operator(s) under root

|ROOT:EMIT Operator (VA = 1)

| |SCAN Operator (VA = 0)
| | FROM TABLE
| | authors
| | Table Scan.
| | Forward Scan.
| | Positioning at start of table.
| | Using I/O Size 2 Kbytes for data pages.
| | With LRU Buffer Replacement Strategy for data pages.

au_id	au_lname	au_fname
phone	address	
city	state	country
		postalcode
-----	-----	-----
-----	-----	-----

(0 rows affected)
(return status = 0)

sp_A

go

QUERY PLAN FOR STATEMENT 1 (at line 1).

STEP 1

The type of query is EXECUTE.

QUERY PLAN FOR STATEMENT 1 (at line 4).

STEP 1

The type of query is SELECT.

1 operator(s) under root

|ROOT:EMIT Operator (VA = 1)

| |SCAN Operator (VA = 0)
| | FROM TABLE
| | titles
| | Table Scan.
| | Forward Scan.
| | Positioning at start of table.
| | Using I/O Size 2 Kbytes for data pages.
| | With LRU Buffer Replacement Strategy for data pages.

QUERY PLAN FOR STATEMENT 2 (at line 5).

STEP 1

The type of query is EXECUTE.

title_id	title
-----	-----
-----	-----
-----	-----
-----	-----
-----	-----

type	pub_id	price	advance
total_sales	-----	-----	-----
notes	-----	-----	-----
-----	-----	-----	-----
pubdate	contract	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

(0 rows affected)

QUERY PLAN FOR STATEMENT 1 (at line 4).

STEP 1

The type of query is SELECT.

1 operator(s) under root

|ROOT:EMIT Operator (VA = 1)

| |SCAN Operator (VA = 0)
| | FROM TABLE
| | authors
| | Table Scan.
| | Forward Scan.
| | Positioning at start of table.
| | Using I/O Size 2 Kbytes for data pages.
| | With LRU Buffer Replacement Strategy for data pages.

au_id	au_lname	au_fname
phone	address	
city	state	country
		postalcode
-----	-----	-----
-----	-----	-----

Both stored procedures are run and you see the resulting **showplan** output.

From <<https://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00743.1570/html/queryprocessing/queryprocessing44.htm>>

=====

<https://infocenter.sybase.com/help/index.jsp?topic=/com.sybase.infocenter.dc00743.1570/html/queryprocessing/CACDGJJ.htm>

[Adaptive Server Enterprise 15.7 SP100](#) > [Performance and Tuning Series: Query Processing and Abstract Plan 15.7](#) > [Finding Slow Running Queries](#)

From <<https://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00743.1570/html/queryprocessing/BABJDBHJ.htm>>

Adaptive Server Enterprise 15.7 ESD #2 > Performance and Tuning Series: Query Processing and Abstract Plans > Using showplan

From <<https://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00743.1570/html/queryprocessing/CACDGJJJ.htm>>

Pdf to word converter

02 January 2025

14:17

Open in chrome with incognito mode

<https://www.adobe.com/in/acrobat/online/pdf-to-word.html>

Running unit tests - Catch2 documentation

01 January 2025 17:38

[Catch2/docs/command-line.md at devel · catchorg/Catch2](https://github.com/catchorg/Catch2/blob/devel/docs/command-line.md)

```
usage: aaa_unittest [ -U <user> ] [-P <password>] [-C configuration] [-F folder] [-- [args catchcpp]* ]
with <-U>   : SQL Server Username
<-P>    : SQL Server Password
<-S>    : specifies the name of the financial server to use
          <srv>   : Financial Server Name
<-C>    : Use the configuration file
          <configuration> : name of the file configuration.cfg
<-F>    : change working directory to <folder> before execution
          useful to locate test data
<-v>    : display the application version
<-V>    : display the version example
<-O>    : do not load Metadictionary
<-x>    : verbose
--      : all argument after this separator are passed to Catch2
<catchcpp> see Catch2 details
          : https://github.com/catchorg/Catch2/blob/devel/docs/command-line.md
          : examples
          -- -r junit > w:\junit_report_test_ta.xml
          -- [fusion]
          -- [dir] --success
          -- --list-tags
          -- --list-tests
=====
```

https://bitbucket.temenos.com/projects/TWS/repos/ta/browse/triplea_core/arch/win/UnitTest/readme.txt

Project for run Unit Tests

The project uses the catchcpp framework ,see github project <https://github.com/catchorg/Catch2> (or 1.x)

see also <https://github.com/xkbeyer/CatchTestAdapter>

1- Unit test Design

=====

The FMK catchcpp is one file ! , catch.hpp

We have a main file for initializing the server and the the FMK catchcpp , unittest.cpp

The idea is to have one file by subject.

testsfusion.cpp => test of fusion.
ut_lock.cpp => test of locks
etc...

2 - Add a new test in existing test : open file and add this :

```
=====
TEST_CASE("My Test", "[mytag"] {
    REQUIRE(MyFunction() == true);
}
```

3 - Add new tests in separate file

=====
Create a file and add #include "catch.hpp", that's all.
ex:

```

# include "catch.hpp"

TEST_CASE("Mytest", "[mytag]")
{
    REQUIRE(MyFunction() == 0);
}

```

NOTE: the second parameter can be a list of tags [tag1][tag2],etc.
a special tag [...] causes test cases to be skipped from the default list

4 Run the tests

=====

All tests are started by the program unittest

The program takes 2 blocks of arguments, the first one for Triple'a Core, and second for catchcpp. the doubledash '--' is the separator.
unittest.exe [args ta] -- [args catchcpp]

ex : 1 Run unit tests with tag fusion in environment CIP_LX2_ORA_WLS
 unittest.exe -Uaaa -Paaaaaaaa -CCIP_LX2_ORA_WLS -FW:\advisor\TA\23.0.0\triplea_core\TestFusion -- [fusion]
 2 Run all unit tests in environment CIP_LX2_ORA_WLS
 unittest.exe -Uaaa -Paaaaaaaa -CCIP_LX2_ORA_WLS

4.1 details of TA core arguments:

- U user
- P passwd
- V display build version
- C name of configuration
- F folder , Changes current directory (chdir)

4.2 details of catchcpp arguments

most used arguments

- the test specification :

ex : [fusion][adjustment] => Matches all cases with tags [Fusion] & [adjustment]
 Fusion* => Matches all cases starting with 'Fusion'

..

- -r junit , generate a junit report to standard output ,can be redirect to a file

ex: unittest.exe -Uaaa -Paaaaaaaa -CCIP_LX2_ORA_WLS -- -r junit > w:\junit_report_test_ta.xml

see <https://github.com/catchorg/Catch2/blob/devel/docs/command-line.md>

5 - Launch the tests from Visual C++.

=====

a - Right click on project UnitTest, go to section Configuration Properties -> Debugging

b - Modify Command Arguments ,ex -Uaaa -Paaaaaaaa -CCIP_LX2_ORA_WLS -FW:\advisor\TA\23.0.0\triplea_core\TestFusion -- [fusion]

c - Ctrl+f5 => run the test in console mode.

6 - Issues

=====

The second parameter (description) is mandatory , AIX issue compilation

ex:

```

TEST_CASE("PosixMutex", "[lock]")
{
    int t0 = callsomething()
    REQUIRE(t0 == 0);

    SECTION("SECTION1","mandatory desc")
    {
        REQUIRE(Mytest() == 0);
    }
}

```


Rapid json Properties - Implementation Details

26 December 2024 16:21

1. /cygdrive/o/rapidjson/bin/draft-04/schema - schema properties
2. /cygdrive/o/rapidjson/bin/encodings
3. All the json tests:
 - a. Test data Files: /cygdrive/o/rapidjson/bin/jsonschema/tests/draft4
 - b. Test File: rapidjson/test/perftest/schematest.cpp
4. Each type of json detailed tests:
 - a. Rapidjson/test/perftest/rapidjsontest.cpp
 - b. Test data file: rapidjson/bin/data/sample.json
5. Data type with business data examples:
 - a. /cygdrive/o/rapidjson/bin/types

=====

Proofing exercise:

```
/o/rapidjson/build->devenv RapidJSON.sln  
/o/rapidjson/build->
```

Json schema validator:

```
O:\rapidjson\build\bin\Debug>schemavalidator.exe tests\input.schema < tests\input.json  
Input is not a valid JSON  
Error(offset 7553): Missing a comma or ')' after an object member.  
Input JSON is valid.
```

```
O:\rapidjson\build\bin\Debug>schemavalidator.exe tests\input.schema < tests\input.json  
Input JSON is valid.
```

```
O:\rapidjson\build\bin\Debug>unitest.exe  
RapidJSON v1.1.0  
[=====] Running 469 tests from 34 test cases.  
[-----] Global test environment set-up.  
[-----] 4 tests from Allocator  
[ RUN ] Allocator.CrtAllocator  
[ OK ] Allocator.CrtAllocator (0 ms)  
[ RUN ] Allocator.MemoryPoolAllocator  
[ OK ] Allocator.MemoryPoolAllocator (1 ms)  
[ RUN ] Allocator.Alignment  
[ OK ] Allocator.Alignment (0 ms)  
[ RUN ] Allocator.Issue399  
[ OK ] Allocator.Issue399 (2 ms)  
[-----] 4 tests from Allocator (14 ms total)  
....
```

Xml to json converter:

```
/cygdrive/o/rapidjson/build/x64/Debug->/xml2json.exe < ./18012025_110026_InfraPMS_Country_test_229.xml  
{"InfraPMS":{"@xmlns":"http://www.odcgroup.com/InfraPMS","@xmlns:xsi":"http://www.w3.org/2001/XMLSchema-instance","@xsi:schemaLocation":"http://www.w3.org/2001/XMLSchema-instance/nW:\GWPACK\1.31.2\XMLSCH\1\InfraPMS.xsd","@output":"String","@description":"String","@mode":"INSUPD","DataGroup":{"Country":{"code":"GWPACK_COUNTRY_TEST","shortName":"GWPACK_COUNTRY_TEST","longName":"GWPACK_COUNTRY_TEST","multilingualLongName":{"language":"en","longName":"GWP_EN_COUNTRY_TEST"},"nature":"0"}}}}
```

Json to xml converter:

```
/cygdrive/o/rapidjson/build/bin/Debug->/jsonx.exe < country.json  
<?xml version="1.0" encoding="UTF-8"?><json:object xsi:schemaLocation="http://www.datapower.com/schemas/json jsonx.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:json="http://www.ibm.com/xmlns/prod/2009/jsonx"><json:object name="InfraPMS"><json:string name="@xmlNs">http://www.w3.org/2001/XMLSchema-instance</json:string><json:string name="@xsi:schemaLocation">http://www.odcgroup.com/InfraPMS</json:string><json:string name="@xmlNs:xsi">http://www.w3.org/2001/XMLSchema-instance</json:string><json:string name="@xsi:schemaLocation">http://www.odcgroup.com/InfraPMS  
W:\GWPACK\1.31.2\GWPACK\XMLSCH\1\InfraPMS.xsd</json:string><json:string name="@output">String</json:string><json:string name="@description">String</json:string><json:string name="@mode">INSUPD</json:string><json:object name="DataGroup"><json:object name="Country"><json:string name="code">GWPACK_COUNTRY_TEST</json:string><json:string name="shortName">GWPACK_COUNTRY_TEST</json:string><json:string name="longName">GWPACK_COUNTRY_TEST</json:string><json:object name="multilingualLongName"><json:string name="language">en</json:string><json:string name="longName">GWP_EN_COUNTRY_TEST</json:string></json:object><json:string name="nature">0</json:string></json:object></json:object></json:object></cygdrive/o/rapidjson/build/bin/Debug->
```

=====

JSON schema references:

[Formats | Opis JSON Schema](#)

<https://opis.io/json-schema/2.x/quick-start.html>

[RapidJSON: Main Page](#)

For online json validation:

<https://www.jsonschemavalidator.net/>

[Home - Ecma International](#)

Different date type validations:

/cygdrive/o/rapidjson/build/bin/Debug->./schemavalidator.exe **val_date.schema.json** <./**val_date.json**
Input JSON is valid.

Explanation:

- The schema defines a property date of type string.
- The anyOf keyword is used to allow multiple formats:
 - **format: "date"**: A basic date format (YYYY-MM-DD).
 - **format: "date-time"**: A full datetime format (YYYY-MM-DDTHH:MM:SSZ).
 - **Regex patterns**: Additional custom date formats are validated using regex patterns, like yyyy-mm-dd, mm/dd/yyyy, yyyy/mm/dd, and dd-mm-yyyy.

Valid Examples:

- "2025-02-12" (ISO 8601 format)
- "12/02/2025" (mm/dd/yyyy)
- "2025/02/12" (yyyy/mm/dd)
- "12-02-2025" (dd-mm-yyyy)

This approach gives you flexibility in validating different date formats while also ensuring the input follows one of the acceptable patterns.

Content of json message **val_date.json**:

```
{  
    "date" : "12/02/2025",  
    "date" : "2025-02-12",  
    "date" : "2025/02/12",  
    "date" : "2025-02-12T17:03:14Z"  
}
```

Content of json schema **val_date.schema.json**:

```
{  
    "$schema": "http://json-schema.org/draft-07/schema#",  
    "type": "object",  
    "properties": {  
        "date": {  
            "type": "string",  
            "anyOf": [  
                {  
                    "format": "date"  
                },  
                {  
                    "format": "date-time"  
                },  
                {  
                    "type": "string",  
                    "pattern": "\\\\d{4}-\\\\d{2}-\\\\d{2}$"          //yyyy-mm-dd format  
                },  
                {  
                    "type": "string",  
                    "pattern": "\\\\d{2}\\\\d{2}\\\\d{4}$"      //mm/dd/yyyy format  
                },  
                {  
                    "type": "string",  
                    "pattern": "\\\\d{4}\\\\d{2}\\\\d{2}$"      //yyyy/mm/dd format  
                },  
                {  
                    "type": "string",  
                    "pattern": "\\\\d{2}-\\\\d{2}-\\\\d{4}$"      //dd-mm-yyyy format  
                }  
            ]  
        },  
        "required": ["date"]  
    }  
}
```

Windows dll build: dll setup No .lib file gets generated

26 December 2024 10:07

[visual studio - Build Succeeded, but no .lib file gets created - Stack Overflow](#)

I inherited a substantial amount of code, including a visual studio project that is supposed to (as best as I can tell) build a .lib file. Visual studio says "... Generating Code... Creating Library... Creating browse information file...", and at the end, it says the build succeeded. In the release/debug folder, it has a bunch of .obj files, but it doesn't have a .lib file. What could I be missing?

Thanks!

- [visual-studio](#)
- [visual-studio-2008](#)
- [visual-c++](#)

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asked Oct 16, 2010 at 19:53



Jim
2,15144 gold badges2525 silver badges3535 bronze badges

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15 Answers

Sorted by:

119

Open the Project Properties (right-click the project in Solution Explorer, select 'Properties'). Under 'Librarian', check 'Output File' - that's where the output should go. If this looks right, try dir /s *.lib in a suitable subdirectory for your project, to see if you can locate the output library by date and time. If you still can't find it, try a clean rebuild (right click project, select 'Rebuild').

For DLLs, a .Lib file is not created if the DLL exports nothing for external usage. I don't think this applies for static lib builds but I would make sure you are exporting something public from your library project source code.

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edited Oct 16, 2010 at 20:24

answered Oct 16, 2010 at 20:14



Steve Townsend
54.1k99 gold badges9696 silver badges144144 bronze badges

- 2
Awesomeness. I don't know what I'd do without you guys! Yes, the problem was in Librarian, the previous developer had hard-coded the path to his home directory. Silly people.
- [Jim](#)
[CommentedOct 16, 2010 at 20:57](#)
- 72
"For DLLs, a .Lib file is not created if the DLL exports nothing for external usage." -- That was my problem. I lost my .lib by re-configuring a header file and losing my __declspec(dllexport) macro.
- [oxx](#)
[CommentedSep 30, 2013 at 16:30](#)
- Why do you have to declare dllexport when it's a static lib?
- [Austin Mullins](#)
[CommentedJun 29, 2014 at 15:23](#)
- 1
@AustinMullins - Ken's comment is for a different use case, involving DLLs, unlike OP's use case.
- [Steve Townsend](#)
[CommentedJun 29, 2014 at 17:10](#)
- 3
"Awesomeness". I find it unspeakable incredible how many little things I have to google in order to get a simple static library compiled in Visual Studio. I really didn't miss this thing .. But thanks for the answer anyway!
- [Stefan Falk](#)
[CommentedDec 9, 2016 at 16:51](#)
- You can find examples of dll exports here: [learn.microsoft.com/en-us/cpp/build/...](https://learn.microsoft.com/en-us/cpp/build/)
- [dmytro.poliarush](#)
[CommentedDec 17, 2019 at 11:05](#)
- as Chuck answers below, some of us silly folks just forgot to #include the project's .h file
- [dan](#)
[CommentedMar 17, 2021 at 13:26](#)
- Thanks for this hint! I had to add set(CMAKE_WINDOWS_EXPORT_ALL_SYMBOLS 1) in my CMakeLists.txt for "exporting" something. With this the .lib was created
- [comrad](#)
[CommentedMay 10, 2021 at 6:43](#)
- clean rebuild worked for me thanks!
- [Or b](#)
[CommentedJan 23, 2023 at 14:28](#)

[Add a comment](#)

48

.lib will not get generated if you miss to add prefix __declspec(dllexport) for methods.

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answered Jul 5, 2017 at 5:36



snb
67111 gold badge77 silver badges1313 bronze badges

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23

My static library contains nothing but two template classes, so I didn't have a .cpp file. This caused Visual Studio 2015 to not output a .lib file. To solve this, I made a file huh.cpp which includes all of the headers.

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answered Sep 20, 2015 at 1:04



Grauit
1,11011 gold badge1414 silver badges3434 bronze badges

- 3
I had to add an existing file to the 'Header Files' and 'Source Files' filters before VS2015 wanted to generate a .lib file.
- [addraven](#)
[CommentedDec 14, 2016 at 21:47](#)
- 3
That's a joke, right ? Still didn't change in visual studio 2022, no warnings no nothing.
- [MAPster](#)
[CommentedFeb 10, 2022 at 13:49](#)

[Add a comment](#)

19

I had the same problem, even though I was already using the `__declspec(dllexport)` function.

Your ProjectName.cpp file needs to `#include "ProjectName.h"`. If you don't include the header file then the functions don't get exported. The DLL builds fine, no errors or warnings (at least in VS2017 15.8), but you don't get a LIB file.

Include the header and boom - LIB file is generated. A rookie mistake I'm sure, but everyone has to start learning somewhere.

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answered Oct 22, 2018 at 17:19



Chuck
2,10211 gold badge1919 silver badges2626 bronze badges

- 1 This solved the SQLite3 DLL creation issue I was having since following the official docs only produce the .dll file without the .lib file

- [Matt Eding](#)

Commented May 25, 2021 at 21:26

- 1 This is still valid advice for MSVS 2022 and my custom dll project. Solved my issue with not having functions exported.

- [Mykola](#)

Commented Apr 11 at 16:16

[Add a comment](#)

5

If the Methods you want to export are in a class, you have to `__declspec(dllexport)` on the class. Otherwise no .lib will be created.

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answered Nov 28, 2018 at 12:04



Crubuntu
6311 silver badge44 bronze badges

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4

In my case (Visual Studio 2019), when `#include "pch.h"` was not the very first include statement in cpp, lib file was not created.

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answered Sep 8, 2021 at 8:30



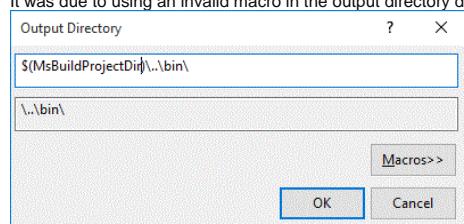
Samil
1,00311 gold badge1818 silver badges2020 bronze badges

[Add a comment](#)

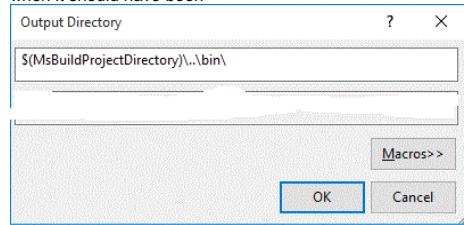
3

I just ran across this problem as well.

It was due to using an invalid macro in the output directory definition. In my case, it was



when it should have been



I had to blank out the full path in the second screen shot. I had an incorrect macro. I was using `MsBuildProjectDir` when I should have been using `MsBuildProjectDirectory`. The read-only text box will show the full path (eg: `C:\Development\blah\blah\blah`) when the output directory is valid. If the output directory is not valid, you'll get something like the first screenshot.

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answered Mar 14, 2016 at 12:14



CHendrix
38822 silver badges1212 bronze badges

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2

In the DLL project, put `__declspec(dllexport)` beginnings of methods defined in .h and .cpp files.

After all, compile your dll again, so .lib file will be generated and ready for linking.

put Class Foo

{

public:

 __declspec(dllexport) intGetFoo()const;

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edited Jun 14, 2019 at 12:17



Perazim
1,54933 gold badges1919 silver badges4646 bronze badges

answered Jun 14, 2019 at 11:54



Gravitas
2111 bronze badge

[Add a comment](#)

2

I was exporting a class from the dll but had declared the class inline in .h file. The .cpp file was there but empty. This setup was causing the .lib file to be not generated.

I moved the implementation of functions to .cpp file and now lib file is generated.

This is in VS2019.

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answered Apr 20, 2020 at 17:34



12.2k18 gold badges104104 silver badges186186 bronze badges

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0

Had the same issue here with VS2019. In my case I had built a few times with no symbols defined (i.e. cpp files were empty).

After I added symbol definitions into the cpp files I began to notice this issue (no lib file was being generated).

A simple clean via 'Rebuild all' fixed it. Perhaps if you build whilst there are no symbols defined, something gets cached somewhere that you have an empty product DLL, and you need to clean the solution to reset that cached state.

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answered May 23, 2020 at 7:21



844111 silver badges2020 bronze badges

[Add a comment](#)

0

My issue was that in the projects Properties>C/C++>CommandLine, I had specified the switch incorrectly. That is instead of writing /D_HASHING_BUILD_DLL I had written /D_Hashing_BUILD_DLL.

Side note:

This is how I build my DLL/Lib files in Visual studio : (and my Hashing.h looks like this:)

```
#ifndef HASHING_H#define HASHING_H// If we are on Windows, we want a single define for it.//#if!defined(_WIN32) && (defined(__WIN32_) || defined(WIN32) || defined(__MINGW32_))#define _WIN32#endif//#ifdef(_WIN32) && defined(_HASHING_BUILD_DLL)/* We are building Hashing as a Win32 DLL */#define HASHING_API __declspec(dllexport)#elif defined(_WIN32) && defined(HASHING_DLL)/* We are calling Hashing as a shared / dynamic library */#define HASHING_API __attribute__((visibility("default")))#else/* We are building or calling HASHING as a static library */#define HASHING_API#endif//your includesclass HASHING_APIMyClass{...};
```

#endif// !HASHING_H

and in the path I stated earlier, I just use the switch I defined here and there you go, the DLL is built just fine!

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edited Sep 27, 2020 at 1:48

answered Aug 11, 2020 at 6:44



25.9k3636 gold badges132132 silver badges239239 bronze badges

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0

I'm not so familiar with C++ and I had the same issue. I thought I would share what worked for me. It appears that the import/export must come after the class statement, according to the following page. <https://learn.microsoft.com/en-us/cpp/error-messages/compiler-warnings/compiler-warning-level-1-c4091?view=msvc-160>

```
// Warning C4091// No error but didn't produce a .lib file__declspec(dllexport) classX{}; // __declspec attribute after the class or struct keyword// applies to user defined type workedclass __declspec(dllexport) X3 {};
```

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answered Oct 31, 2021 at 20:00



344 bronze badges

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0

Sometimes when you break you head in a new project why .lib is not created - it can be some "past games" issue. I was creating a new .dll but before I decided to use #define with __declspec(dllexport)/__declspec(dllexport) I tried to play with .def After removing .def file it probably left some misconfiguration in the project file and it wasn't creating .lib file... Till I decided to just remove the project completely and recreate - and walla, works perfectly!

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answered Feb 14, 2022 at 6:45



58755 silver badges1010 bronze badges

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0

In my case, I was setup my project in property pages to build dll file in release mode and lib file in debug mode, but I set it importing and exporting dll file with __declspec while in debug mode, so there's a bun of linking and .lib not found error.

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answered May 22, 2023 at 12:32



2188 bronze badges

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0

There a number of reasons why the client project may not be able find or connect to the base project DLL.

1. The EXPORTS macro is not defined correctly. If this is a Visual Studio generated project, it should have this already correctly defined in the .vcxproj file, something like:
 <PreprocessorDefinitions>WIN32;NDEBUG;MYLIB_EXPORTS;_WINDOWS;_USRDL;%(PreprocessorDefinitions)</PreprocessorDefinitions>

The key part is having MYLIB_EXPORTS there, as it will get defined.

Perhaps the project was renamed and not all the defines synced up correctly afterwards.

2. The base project DLL doesn't have the __declspec defined correctly. These are usually defined in the main or 'public' header file that will also be included in the client project. These definitions should be something similar to the following:

```
#ifdef MYLIB_EXPORTS  
#define MYLIB_API __declspec(dllexport)  
#else  
#define MYLIB_API __declspec(dllimport)  
#endif
```

The first define will be defined for base project DLL itself, as it will find the MYLIB_EXPORTS macro defined in the vcxproj file. This will 'export' the symbols. The second define will be defined when the client projects include the header file in their projects. This will allow finding and using the symbols.

3. All Classes and functions to be accessed from client projects must be prefixed with macro (in this example: MYLIB_API) like:

```
class MYLIB_API LibClass  
{  
public:  
    LibClass();  
    ~LibClass();  
};
```

```
MYLIB_API void DoSomething();
```

4. The LIB must be output in a directory where the client projects can find it. There are a number of ways of going about this, such as explicitly including the base project DLLs output path in the client projects linker input path. I prefer to set all projects to use a common output directly, so I set all projects to the following:
`<OutDir>$(SolutionDir)Bin$(Configuration)$(PlatformTarget)\`
 5. Finally, the LIB must be included in the client project. Right clicking on the client project, choose Properties -> Linker -> Input -> Additional Dependencies. Paste in something like the following:
`$(OutDir)MyLib.lib`
- If all is configured correctly, the linking should go smoothly.

From <<https://stackoverflow.com/questions/3950509/build-succeeded-but-no-lib-file-gets-created>>

Mismatch detected for 'RuntimeLibrary'

25 December 2024 21:41

164

I downloaded and extracted Crypto++ in C:\cryptopp. I used Visual Studio Express 2012 to build all the projects inside (as instructed in readme), and everything was built successfully. Then I made a test project in some other folder and added cryptolib as a dependency. After that, I added the include path so I can easily include all the headers. When I tried to compile, I got an error about unresolved symbols.

To remedy that, I added C:\cryptopp\Win32\Output\Debug\cryptlib.lib to link additional dependencies. Now I get this error:

```
Error 1error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(cryptlib.obj)  CryptoTest
Error 2error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(terhash.obj)  CryptoTest
Error 3error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(sh.a.obj)  CryptoTest
Error 4error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(pch.obj)  CryptoTest
Error 5error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(misc.obj)  CryptoTest
Error 6error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(queue.obj)  CryptoTest
Error 7error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(alparam.obj)  CryptoTest
Error 8error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(filters.obj)  CryptoTest
Error 9error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(fips140.obj)  CryptoTest
Error 10error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(cpu.obj)  CryptoTest
Error 11error LNK2038: mismatch detected for'RuntimeLibrary': value 'MTd_StaticDebug'doesn't match value 'MDd_DynamicDebug'in program.obj  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\cryptlib.lib(mqueue.obj)  CryptoTest
```

I also get:

```
Error 12error LNK2005: "public: __thiscall std::Container_base12::Container_base12(void)"(??0_Container_base12@std@@QAE@XZ) already defined in cryptlib.lib(cryptlib.obj)  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\msvcprtd.lib(MSVCP110.dll)  CryptoTest
Error 13error LNK2005: "public: __thiscall std::Container_base12::~Container_base12(void)"(??1_Container_base12@std@@QAE@XZ) already defined in cryptlib.lib(cryptlib.obj)  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\msvcprtd.lib(MSVCP110.dll)  CryptoTest
Error 14error LNK2005: "public: void __thiscall std::Container_base12::_Orphan_all(void)"(??_Orphan_all@_Container_base12@std@@QAE@XZ) already defined in cryptlib.lib(cryptlib.obj)  C:\Data\Work\C++ VS\CryptoTest\CryptoTest\msvcprtd.lib(MSVCP110.dll)  CryptoTest
Error 15error LNK2005: "public: __thiscall std::locale::id::id(unsigned int)"(??0id@locale@std@@QAE@I@Z) already defined in cryptlib.lib(terhash.obj)  C:\Data\Work\C++ VS\CryptoTest\msvcprtd.lib(MSVCP110.dll)  CryptoTest
```

Warning 16warning LNK4098: defaultlib 'LIBCMTD'conflicts with use of other libs; use /NODEFAULTLIB:library C:\Data\Work\C++ VS\CryptoTest\CryptoTest\LINK CryptoTest

Error 17error LNK1169: one or more multiply defined symbols found C:\Data\Work\C++ VS\CryptoTest\Debug\CryptoTest.exe 11CryptoTest

The code I tried to compile was simple (I got this from another site):

```
#include<iostream>#include<string>#include"sha.h"#include"hex.h"usingnamespacestd;
```

```
string SHA256(string data){
    byte const* pbData = (byte*) data.data0;
    unsignedintnDataLen = data.size0;
    byte abDigest[32];
    CryptoPP::SHA2560.CalculateDigest(abDigest, pbData, nDataLen);
    returnstring((char*)abDigest);
}
```

```
intmain(void){
    return0;
}
```

Any ideas how to fix this? I really only need SHA-256 right now, nothing else. I am using Windows 7 64 bit, and I downloaded VS C++ today, so it should be the newest version.

- [c++](#)
- [hash](#)
- [compilation](#)
- [sha256](#)
- [crypto++](#)

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edited Oct 24, 2015 at 1:58



[iww](#)

102k100100 gold badges437437 silver badges936936 bronze badges
asked Feb 5, 2013 at 19:00

user2007674

- 1 msdn.microsoft.com/en-us/library/6wtwsk0%28v=vs.71%29.aspx [msdn.microsoft.com/en-us/library/2kzt1wy3\(v=vs.71\).aspx](https://msdn.microsoft.com/en-us/library/2kzt1wy3(v=vs.71).aspx) bugzilla.mozilla.org/show_bug.cgi?id=732124
- [us2012](#)
[CommentedFeb 5, 2013 at 19:31](#)

- 2 I set my project's runtime library to Multi-threaded debug (that was the setting used in crypto++) and now it compiles! :) Thank you so much.
- [user2007674](#)
[CommentedFeb 5, 2013 at 20:45](#)

- The problems occurred much earlier when you ran [VCUpgrade](#). You are seeing symptoms of the VCUpgrade failure that was reported as a [Success](#) to you.
- [iww](#)
[CommentedOct 24, 2015 at 2:17](#)

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5 Answers

Sorted by:

304

(This is already answered in comments, but since it lacks an actual answer, I'm writing this.)

This problem arises in newer versions of Visual C++ (the older versions usually just silently linked the program and it would crash and burn at run time.) It means that some of the libraries you are linking with your program (or even some of the source files inside your program itself) are using different versions of the CRT (the C Runtime library.)

To correct this error, you need to go into your Project Properties (and/or those of the libraries you are using,) then into C/C++, then Code Generation, and check the value of Runtime Library; this should be exactly the same for all the files and libraries you are linking together. (The rules are a little more relaxed for linking with DLLs, but I'm not going to go into more details here.)

There are currently four options for this setting:

1. Multithreaded Debug
2. Multithreaded Debug DLL

3. Multithreaded Release

4. Multithreaded Release DLL

Your particular problem seems to stem from you linking a library built with "Multithreaded Debug" (i.e. static multithreaded debug CRT) against a program that is being built using the "Multithreaded Debug DLL" setting (i.e. dynamic multithreaded debug CRT). You should change this setting either in the library, or in your program. For now, I suggest changing this in your program. Note that since Visual Studio projects use different sets of project settings for debug and release builds (and 32/64-bit builds) you should make sure the settings match in all of these project configurations.

For (some) more information, you can see these (linked from a comment above):

1. [Linker Tools Warning LNK4098 on MSDN](#)

2. [/MD /ML /MT /LD \(Use Run-Time Library\) on MSDN](#)

3. [Build errors with VC11 Beta - mixing MTd libs with MDd exes fail to link on Bugzilla@Mozilla](#)

UPDATE: (This is in response to a comment that asks for the reason that this much care must be taken.)

If two pieces of code that we are linking together are themselves linking against and using the standard library, then the standard library must be the same for both of them, unless great care is taken about how our two code pieces interact and pass around data. Generally, I would say that for almost all situations just use the exact same version of the standard library runtime (regarding debug/release, threads, and obviously the version of Visual C++, among other things like iterator debugging, etc.)

The most important part of the problem is this: having the same idea about the size of objects on either side of a function call.

Consider for example that the above two pieces of code are called A and B. A is compiled against one version of the standard library, and B against another. In A's view, some random object that a standard function returns to it (e.g. a block of memory or an iterator or a FILE object or whatever) has some specific size and layout (remember that structure layout is determined and fixed at compile time in C/C++.) For any of several reasons, B's idea of the size/layout of the same objects is different (it can be because of additional debug information, natural evolution of data structures over time, etc.)

Now, if A calls the standard library and gets an object back, then passes that object to B, and B touches that object in any way, chances are that B will mess that object up (e.g. write the wrong field, or past the end of it, etc.)

The above isn't the only kind of problems that can happen. Internal global or static objects in the standard library can cause problems too. And there are more obscure classes of problems as well.

All this gets weirder in some aspects when using DLLs (dynamic runtime library) instead of libs (static runtime library.)

This situation can apply to any library used by two pieces of code that work together, but the standard library gets used by most (if not almost all) programs, and that increases the chances of clash. What I've described is obviously a watered down and simplified version of the actual mess that awaits you if you mix library versions. I hope that it gives you an idea of why you shouldn't do it!

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[edited Jul 17, 2017 at 12:54](#)

answered Sep 5, 2013 at 12:00



[vzt](#) 9,098 11 gold badge 3737 silver badges 4646 bronze badges

- I am a bit confused. OP's error is [LNK2038](#). As it does not happen with all libs, I suspect Crypto++ fiddles with some CRT settings that make it impossible to mix CRT flavours - usually it is just a warning (LNK4098) and you *may* be safe if you know what you do (not recommended, but possible with limitations, see e.g. [stackoverflow.com/a/19944935/948581](#)). I don't know why Crypto++ is affected this way, though.

- user948581

[Commented Sep 3, 2015 at 19:45](#)

- 1

@Tibo: These are not import libraries for DLLs; I believe Crypto++ is actually being linked statically with the program here. This means that any mismatch in the standard library being linked with in one module against another (probably) violates the "One Definition Rule". Which is bad. This used to be not an error, since the linker wasn't even able to detect this (the function/type names were the same, but their bodies and definitions differed significantly) until VC10 when the linker/librarian started "tagging" the modules it produced with extra information about the config of the build...

- [vzt](#)

[Commented Sep 3, 2015 at 20:13](#)

- @Tibo: ... (continued from previous comment) For example, look at the first block of errors the OP is reporting. In there, "RuntimeLibrary" is a tag on both the Crypto++ library and the object file for the OP's program, and its value is "MDd_DynamicDebug" for one of them and "MTd_StaticDebug" for the other. This way, the linker that is trying to link two object files together can detect and report a whole new class of errors, given that the linkers that produced those object files tagged them with any relevant information, particularly any settings that would potentially violate ODR.

- [vzt](#)

[Commented Sep 3, 2015 at 20:18](#)

- While I quite agree with you, there is still an area of mystery here. As for the OP's problem, I guess he is including "dll.h" from Crypto++, and then tries to link against the static lib instead of the DLL's import library. But I've seen the exact same errors on one computer, not on another one (VS2013 ultimate sp4 -> error, VS2013 community sp5 -> ok)...

- user948581

[Commented Sep 3, 2015 at 20:32](#)

- 1

@yzt I figured out a solution. Instead of using /ZW switch, windows provides a way to use WinRT API via COM using a wrapper called WRL. It is just that not using /ZW makes coding little difficult since it hides COM implementation details, but it is possible to use WinRT without /ZW.

- [Sahil Singh](#)

[Commented Jul 18, 2017 at 13:26](#)

[Show 9 more comments](#)

10

I had this problem along with mismatch in ITERATOR_DEBUG_LEVEL. As a sunday evening problem after all seemed ok and good to go, I was put out for some time. Working in de VS2017 IDE (Solution Explorer) I had recently added/copied a sourcefile reference to my project (ctrl-drag) from another project. Looking into properties->C/C++/Preprocessor - **at source file level, not project level** - I noticed that in a Release configuration _DEBUG was specified instead of NDEBUG for this source file. Which was all the change needed to get rid of the problem.

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answered Jul 22, 2018 at 19:03



[Jan](#) 45766 silver badges 99 bronze badges

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4

I downloaded and extracted Crypto++ in C:\cryptopp. I used Visual Studio Express 2012 to build all the projects inside (as instructed in readme), and everything was built successfully. Then I made a test project in some other folder and added cryptolib as a dependency.

The conversion was probably not successful. The only thing that was successful was the running of VCUpgrade. The actual conversion itself failed but you don't know until you experience the errors you are seeing. For some of the details, see [Visual Studio](#) on the Crypto++ wiki.

Any ideas how to fix this?

To resolve your issues, you should download [vs2010.zip](#) if you want static C/C++ runtime linking (/MT or /MTd), or [vs2010-dynamic.zip](#) if you want dynamic C/C++ runtime linking (/MT or /MTd). Both fix the latent, silent failures produced by VCUpgrade.

[vs2010.zip](#), [vs2010-dynamic.zip](#) and [vs2005-dynamic.zip](#) are built from the [latest GitHub sources](#). As of this writing (JUN 1 2016), that's effectively pre-Crypto++ 5.6.4. If you are using the ZIP files with a down level Crypto++, like 5.6.2 or 5.6.3, then you will run into minor problems.

There are two minor problems I am aware. First is a rename of [bench.cpp to bench1.cpp](#). Its error is either:

- C1083: Cannot open source file: 'bench1.cpp': No such file or directory
- LNK2001: unresolved external symbol "void __cdecl OutputResultOperations(char const *,char const *,bool,unsigned long,double)" (?OutputResultOperations@@YAXPBD0_NKN@Z)

The fix is to either (1) open cryptest.vcxproj in notepad, find bench1.cpp, and then rename it to bench.cpp. Or (2) rename bench.cpp to bench1.cpp on the filesystem. Please don't delete this file.

The second problem is a little trickier because it's a moving target. Down level releases, like 5.6.2 or 5.6.3, are missing the latest classes available in [GitHub](#). The missing class files include HKDF (5.6.3), RDRAND (5.6.3), RDSEED (5.6.3), ChaCha (5.6.4), BLAKE2 (5.6.4), Poly1305 (5.6.4), etc.

The fix is to remove the missing source files from the Visual Studio project files since they don't exist for the down level releases.

Another option is to add the missing class files from the latest sources, but there could be complications. For example, many of the sources subtly depend upon the latest config.h, cpu.h and cpu.cpp. The "subtlety" is you won't realize you are getting an under-performing class.

An example of under-performing class is BLAKE2. config.h adds compile time ARM-32 and ARM-64 detection. cpu.h and cpu.cpp adds runtime ARM instruction detection, which depends upon compile time detection. If you add BLAKE2 without the other files, then none of the detection occurs and you get a straight C/C++ implementation. You probably won't realize you are missing the NEON optimization, which runs around 9 to 12 cycles-per-byte versus 40 cycles-per-byte or so for vanilla C/C++.

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[edited Jun 1, 2016 at 4:03](#)

answered Oct 24, 2015 at 2:06



jww
102k100100 gold badges437437 silver badges936936 bronze badges

- I followed the instructions in the cryptopp wiki, downloaded vs2010-dynamic.zip and pasted it's contents onto the cryptopp563 code. Built and got some source files missing. No problem the wiki says the zip is for the latest project on github, and just delete any missing files. Deleted. Now the project just doesn't build: 4 link errors, one example: error LNK2001: unresolved external symbol "void _cdecl OutputResultOperations(char const *,char const *,bool,unsigned long,double)" (?OutputResultOperations@@YAXPBD0_NKN@Z)

- Yaniv

[CommentedMay 31, 2016 at 10:53](#)

- Turned out there was a bench.cpp that was missing from the project. But even after that it did not compile until I applied this fix to fiptest.cpp github.com/weidai11/cryptopp/pull/151/files?diff=split I wish they would make some order in this, like add the project zip files into git or something. And yes, I neglected to say my compiler is VS2015 update 2. Bottom line, follow the hints I wrote and it works.

- Yaniv

[CommentedMay 31, 2016 at 12:26](#)

- @Yaniv - For the first comment, what do you recommend so other users don't experience problems? For the second comment, we plan on taking the patch once we get it fully tested. Is there anything we can do in the meantime? (I added additional info to this answer, but I want to ensure users don't have trouble).

- jww

[CommentedJun 1, 2016 at 3:56](#)

- Firstly, thanks so much for doing this. Crypto++ really rocks. Regarding the build problems, try to keep the windows sln and project files compatible with the latest files in the project, and since these change of course, these windows build should be somehow linked to the codebase, and maybe even be on the source tree. If that is too much, at least make sure the zip file with the visual studio build environment is compatible with the current stable official release.

- Yaniv

[CommentedJun 2, 2016 at 14:10](#)

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1

Issue can be solved by adding CRT of msvertd.lib in the linker library. Because cryptlib.lib used CRT version of debug.

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answered Jun 20, 2019 at 9:30



abhijithkp
14911 silver badge33 bronze badges

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-1

I'll share my curios answer in case this will help anyone. I had a the same error: mismatch detected for 'RuntimeLibrary'. My problem was as follows. I had two CMakeLists.txt files: one in the root folder and one in a subfolder. The first one did nothing but to include the second one, like so: include(WTEX/test/SWT/testframe/CMakeLists.txt). The second was the one which actually sets up the project. My issue is I had in both those files the line: project(SOME_PROJ_NAME). After removing that line from the first CMakeLists.txt it worked for me. So again, this was the content of the first CMakeLists.txt file (the one from the root folder) when I got the error:

cmake_minimum_required(VERSION 3.18)

project(SWT)

include(WTEX/test/SWT/testframe/CMakeLists.txt)

This was the contents which removed the error for me:

cmake_minimum_required(VERSION 3.18)

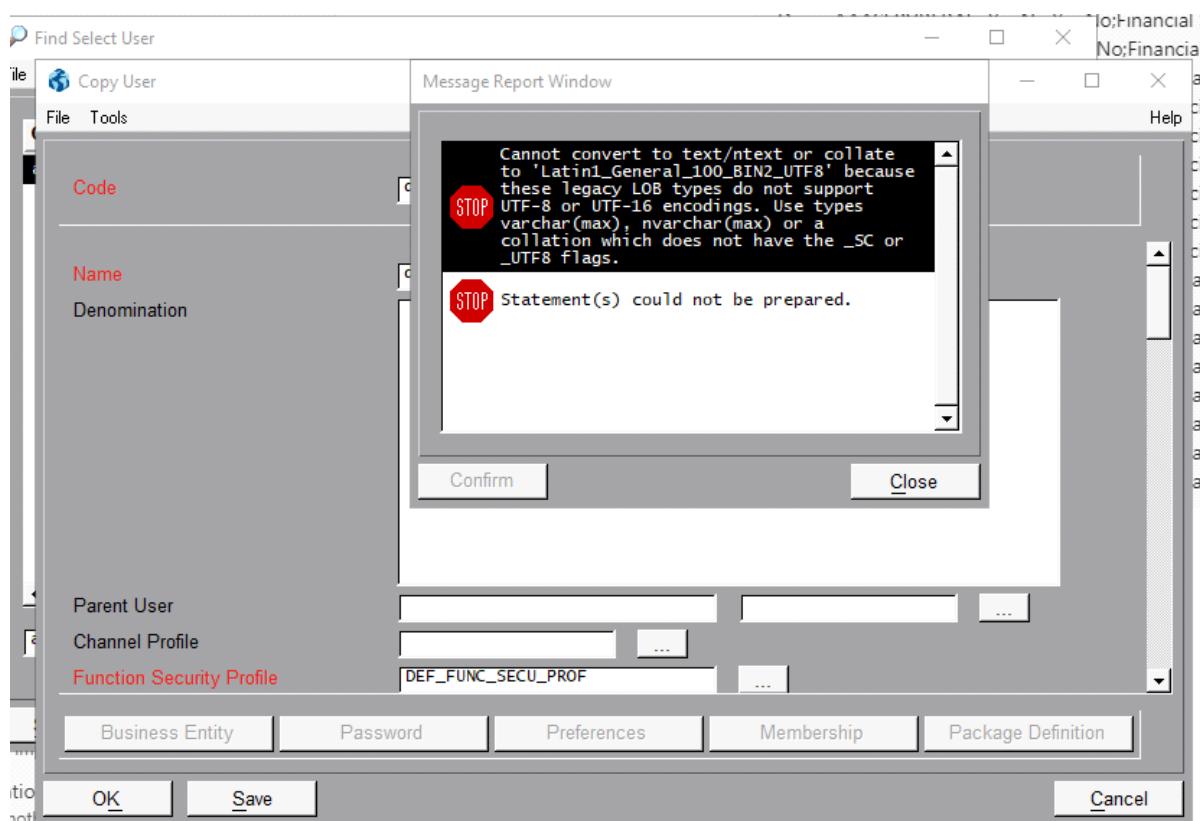
include(WTEX/test/SWT/testframe/CMakeLists.txt)

In the end I had the line project(SOME_PROJ_NAME) only in the second CMakeLists.txt. I don't think it matters in which file you have that cmake line about the project but there must be only one line like.

From <<https://stackoverflow.com/questions/14714877/mismatch-detected-for-runtimelibrary>>

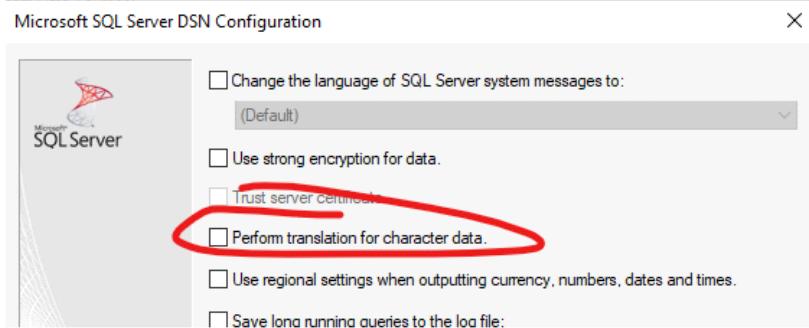
MS SQL Server : [Cannot resolve the collation conflict between "SQL_Latin1_General_CI_AS" and "Latin1_General_CI_AS" in the equal to operation](#)

19 December 2024 16:20



Resolution

To resolve this, make sure that the Perform translation for character data option is not activated (default as of MS SQL Server 2019 and later) in the Connection Encryption.



This step is also in the documentation here:

https://docs.automic.com/documentation/webhelp/english/ALL/components/DOCU/24.0/Automic%20Automation%20Guides/Content/Installatic_tocpath=Installing%7CManual%20Installation%7CPreparing%20for%20the%20Manual%20Installation%7CPreparing%20the%20AE%20Database%7C%20MS%20SQL%7C_____0

- **Microsoft SQL Server/MS SQL Server on Linux**

If you use ODBC:

- Activate the Trust server certificate option in the Microsoft SQL Server DSN Configuration window (default as of MS SQL Server 2019 and later)
- **Make sure that the Perform translation for character data option is not activated (default as of MS SQL Server 2019 and later) in the Connection Encryption.**

If you do not use ODBC, make the following definitions in the **INI** file of the Automation Engine and Utilities:

- **TrustServerCertificate=Yes**
- **AutoTranslate=NO**

<https://stackoverflow.com/questions/1607560/cannot-resolve-the-collation-conflict-between-sql-latin1-general-cp1-ci-as-and>

Stopping or starting launcher gives error

16 December 2024 14:07

Stopping Launcher...

```
AAAHOME is /oams/v_syb_231_1/aaa/current
Executing /oams/v_syb_231_1/aaa/current/bin/AIX/gwp_launcher.sh -stop
/oams/v_syb_231_1/aaa/current/bin/AIX/gwp_launcher.sh[152]: launcher.sh: not found
ERROR: Failed to execute ${AAAHOME}/aaa gwpacklauncher -stop 5015 !
```

Starting Launcher...

```
ERROR: Failed to execute ${AAAHOME}/aaa gwpacklauncher -start !
```

Press Enter to Continue...

```
GWPACK_WTX_HOME=/oams/v_syb_231_1/itx
DTX_HOME_DIR=/oams/v_syb_231_1/itx
```

```
TX_INSTALL_DIR=/oams/v_syb_231_1/itx
MERC_HOME_DIR=$DTX_HOME_DIR
=====
```

TX_INSTALL_DIR/config/config.yaml - Modify resourcefile: /oams/v_syb_aix_1/gwpack/config/GWPACK_Registry.mrc
config/dtx.ini - ; Define the resource configuration file to use for the Command Server:

```
ResourceCfgFile=/oams/v_syb_aix_1/itx/GWPACK_HOME/config/GWPACK_Registry.mrc
```

MS SQL Server - Update Statistics

15 December 2024 22:27

```
USE int_e2e_maint;
```

```
EXEC sp_updatestats;
```

From <<https://learn.microsoft.com/en-us/sql/relational-databases/system-stored-procedures/sp-updatestats-transact-sql?view=sql-server-ver16>>

```
select * from sys.stats where name like '%portfolio%'; --select object_id, stats_id
```

```
select object_id('int_e2e_grcsql_aaamaindb.portfolio');
```

```
SELECT * FROM sys.dm_db_stats_properties (object_id('Person.Person'), 1);
```

```
SELECT sp.stats_id, name, filter_definition, last_updated, rows, rows_sampled, steps, unfiltered_rows, modification_counter FROM sys.stats AS stat CROSS APPLY sys.dm_db_stats_properties(stat.object_id, stat.stats_id) AS sp WHERE stat.object_id = object_id('aaamaindb.portfolio');
```

From <<https://learn.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-db-stats-properties-transact-sql?view=sql-server-ver16>>

```
SELECT obj.name, obj.object_id, stat.name, stat.stats_id, last_updated, modification_counter FROM sys.objects AS obj INNER JOIN sys.stats AS stat ON stat.object_id = obj.object_id CROSS APPLY sys.dm_db_stats_properties(stat.object_id, stat.stats_id) AS sp WHERE modification_counter > 1000;
```

From <<https://learn.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-db-stats-properties-transact-sql?view=sql-server-ver16>>

```
SELECT obj.name, obj.object_id, stat.name, stat.stats_id, last_updated, modification_counter
FROM sys.objects AS obj
INNER JOIN sys.stats AS stat ON stat.object_id = obj.object_id
CROSS APPLY sys.dm_db_stats_properties(stat.object_id, stat.stats_id) AS sp WHERE obj.name like '%portfolio%';
=====
```

```
USE AdventureWorks2022;
```

```
GO
```

```
SELECT City, StateProvinceID, PostalCode FROM Person.Address ORDER BY PostalCode DESC; GO
DECLARE @xml_showplan nvarchar(max);
SET @xml_showplan =
(SELECT query_plan FROM sys.dm_exec_query_stats AS qs CROSS APPLY sys.dm_exec_sql_text(qs.sql_handle) AS st CROSS APPLY
sys.dm_exec_text_query_plan(qs.plan_handle, DEFAULT, DEFAULT) AS qp WHERE st.text LIKE N'SELECT City, StateProvinceID, Postal Code FROM Person.Address ORDER
BY PostalCode DESC;%');
```

```
EXEC sp_create_plan_guide @name = N'Guide1_from_XML_showplan', @stmt = N'SELECT City, StateProvinceID, PostalCode FROM Person.Address ORDER BY
PostalCode DESC;', @type = N'SQL', @module_or_batch = NULL, @params = NULL, @hints = @xml_showplan;
GO
```

From <<https://learn.microsoft.com/en-us/sql/relational-databases/performance/apply-a-fixed-query-plan-to-a-plan-guide?view=sql-server-ver16>>

sed & awk usage and example

15 December 2024 12:46

sed 's/[^\"]*\"([^\"]*").*\1/'

does the job.

explanation of the part inside ''

- s - tells sed to substitute
- / - start of regex string to search for
- [^\"]* - any character that is not ", any number of times. (matching *parameter name*=)
- " - just a "
- ([^\"]*) - anything inside () will be saved for reference to use later. The \ are there so the brackets are not considered as characters to search for. [^\"]* means the same as above. (matching *RemoteHost* for example)
- .* - any character, any number of times. (matching "access="readWrite"> /parameter)
- / - end of the search regex, and start of the substitute string.
- \1 - reference to that string we found in the brackets above.
- / end of the substitute string.

basically s/search for this/replace with this/ but we're telling him to replace the whole line with just a piece of it we found earlier.

From <<https://stackoverflow.com/questions/16675179/how-to-use-sed-to-extract-substring>>

sed -nE 's/^pass2::.*<(.*)>.*\$^1/p'

From <<https://unix.stackexchange.com/questions/507188/extract-substring-according-to-regexp-with-sed-or-grep>>

\$ printf '%s\n' pass2: <Marvell Console 1.01> Removable Processor SCSI device' | sed -nE 's/^pass2::.*<(.*)>.*\$^1/p'
Marvell Console 1.01

From <<https://unix.stackexchange.com/questions/507188/extract-substring-according-to-regexp-with-sed-or-grep>>

\$ dmesg |egrep -o "<([a-zA-Z0-9]+)>" |tr -d "<>"
Marvell Console 1.01

From <<https://unix.stackexchange.com/questions/507188/extract-substring-according-to-regexp-with-sed-or-grep>>

Mirabau L3 Environment Details

13 December 2024 18:40

<https://tcf24.ussaas.t24-jumpstart.com/FOPMBMCS/servletcontroller?SUBSESSIONID=0> - ABH/12345678
<https://tcf24.ussaas.t24-jumpstart.com/FOPM/servletcontroller?SUBSESSIONID=0>

kw exec -it <podname> -- bash

Use "kubectl <command> --help" for more information about a given command.
Use "kubectl options" for a list of global command-line options (applies to all commands).

tcfadmin@buildvm1:~\$ kw get pods

NAME	READY	STATUS	RESTARTS	AGE
fin-srv-7c9dc8b868-4swhr	1/1	Running	0	6h20m
fusion-srv-5755d748c4-qrjnf	1/1	Running	0	6h21m
gwpack-0	1/1	Running	0	29h
otelcol-85d88995d4-lqcpf	1/1	Running	0	43h
setup-api-0	1/1	Running	0	43h
sysop-api-5dc85c8cd5-k97gx	1/1	Running	0	43h
tap-iris-extern-846f49497d-5jbct	1/1	Running	0	43h
tap-iris-f8667fcf6-rlld5	1/1	Running	0	43h
tap-web-6ff8769c78-5zrhp	1/1	Running	0	9h
tap-web-batch-64465fddf6-4wzx2	1/1	Running	0	43h
tti-849f5c97d6-fvt9s	1/1	Running	0	28h
twac-6d84d4dbb4-vtm8r	1/1	Running	0	43h
ws-uxp-7b5bfd6f8d-fhj54	1/1	Running	0	3h43m
ws-uxp-mb-5dff664545-n4jcj	1/1	Running	0	9h

tcfadmin@buildvm1:~\$ kw exec -it fin-srv-7c9dc8b868-4swhr -- bash

Defaulted container "tap-core-fin" out of: tap-core-fin, init-wait-for-database (init)
[appuser@fin-srv-7c9dc8b868-4swhr aaa]\$

TSL eval entity services - customization - documentation

12 December 2024 10:37

[TSL services - R&D Project & Release Management - Confluence PROD](#)

[TSL services - R&D Project & Release Management - Confluence PROD](#)

[TSL Quick user guide - R&D Project & Release Management - Confluence PROD](#)

[TSL global architecture - R&D Project & Release Management - Confluence PROD](#)

[TSL parameters management - R&D Project & Release Management - Confluence PROD](#)

[TSL dataset converter - R&D Project & Release Management - Confluence PROD](#)

[TSL Financial services - R&D Project & Release Management - Confluence PROD](#)

[TSL CRUD services - R&D Project & Release Management - Confluence PROD](#)

[TSL Precomputed data - R&D Project & Release Management - Confluence PROD](#)

[TSL Order services - R&D Project & Release Management - Confluence PROD](#)

TASC Refactoring Project Page

└ TSL services

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-
- Created by [David Aguirre](#), last modified by Unknown User (smellinet) on [May 13, 2020](#)

TSL Services

This document describes the concepts of TSL from a Java perspective.

[TSL Quick user guide](#)

Overview

Acronyms, abbreviations, and definitions

- TSL: Triple'A Services Library (sort of OCS service layer that also includes [OpenJPA](#) services)
- TSL-FC: Triple'A Services Library Financial Computation (aka TASC2/new TASC)
- DS: Design Studio
- TA: Triple'A
- TA finserver: Triple'A financial server

Global architecture

[TSL global architecture](#)

Services Architecture

[TSL Services architecture](#)

TSL parameters management

[TSL parameters management](#)

TSL Mapping WUI context - Domain Triple'A

[TSL Mapping WUI context - Domain Triple'A](#)

TSL dataset converter

[TSL dataset converter](#)

TSL Search Framework

[TSL Search Framework](#)

TSL Search Framework Technical Side

[TSL Search Framework Technical Side](#)

Financial Services

[TSL Financial services](#)

CRUD services

[TSL CRUD services](#)

TSL Precomputed data

[TSL Precomputed data](#)

F2B Order services

[TSL Order services](#)

TSL Reporting Services bridge

[TSL Reporting Services bridge](#)

Financial server load balancing

[TSL Load Balancing](#)

Security

TO BE DONE

Codifications

TO BE DONE

Logging

[TSL and TASC logging \(eval_entity + fin_analysis_by_id\)](#)

[How to read TSL and TASC logs](#)

Common problems

[TSL Common problems](#)

TSL testing

Sonar links

[Sonar TASC](#)

[Sonar TSL](#)

Integration

Integration machine W7081

User: cmsbm

Session 1: dedicated to financial servers

Session 2: dedicated to application servers

Point of contact for any help: ngr

Testing with dataservice

[TSL testing](#)

From <<https://confluence.temenos.com/display/RDPM/TSL+services>>

AIX memory statistics & Analysis, library files loaded for process

09 December 2024 14:49

AAAHOME> svmon -P > lax

Pid	Command	Inuse	Pin	Pgsp	Virtual	64-bit	Mthrd	16MB
17105346	oracle	1869535	13460	45724	1774107	Y	N	N

PageSize	Inuse	Pin	Pgsp	Virtual
s 4 KB	242591	4	492	13723
m 64 KB	101684	841	2827	110024
L 16 MB	0	0	0	0
S 16 GB	0	0	0	0

Vsid	Esid	Type	Description	PSize	Inuse	Pin	Pgsp	Virtual
b32cf3	-	cldt	/dev/oamslv:3161999	s 217602	0	-	-	-
919cdb	7000100a	work	shmat/mmap	m 4096	0	0	4096	
8cd38e	7000100c	work	shmat/mmap	m 4096	0	0	4096	
8263dd	7000100b	work	shmat/mmap	m 4096	0	0	4096	
ad9ce7	70001012	work	shmat/mmap	m 4096	0	0	4096	
b43ab3	7000100f	work	shmat/mmap	m 4096	0	0	4096	
b1fde1	7000100e	work	shmat/mmap	m 4096	0	0	4096	
982c58	70001010	work	shmat/mmap	m 4096	0	0	4096	
bd407d	7000100d	work	shmat/mmap	m 4096	0	0	4096	
9f3598	70001009	work	shmat/mmap	m 4096	0	0	4096	
9c39db	70001011	work	shmat/mmap	m 4096	0	0	4096	
b838a7	70001013	work	shmat/mmap	m 4096	0	0	4096	
b73670	70001003	work	shmat/mmap	m 4096	0	0	4096	
92790d	70001008	work	shmat/mmap	m 3997	0	99	4096	
8974d6	70001000	work	shmat/mmap	m 3978	0	0	3978	
a438fb	70001005	work	shmat/mmap	m 3933	0	0	3933	
8260dd	70001006	work	shmat/mmap	m 3926	0	0	3926	
b63631	70001004	work	shmat/mmap	m 3785	0	1	3786	
88b456	70001007	work	shmat/mmap	m 3681	0	1	3682	
81bc5f	70001001	work	shmat/mmap	m 3528	0	452	3980	
bb37bc	10	work	text data BSS heap	m 2397	0	0	2457	
8707c7	90000002	work	shared library text	m 2366	0	139	2517	
8936d6	90000008	work	shared library text	m 2273	0	36	2817	
bc34bb	70001002	work	shmat/mmap	m 2206	0	1832	3972	

=====

<https://www.ibm.com/support/pages/memory-leak-diagnosis-aix>

[https://knowledge.informatica.com/s/article/How-To-check-memory-leak-in-AIX-process?language=en_US#:~:text=In%20AIX%2C%20we%20can%20use,pmserver%2Fpmdtm%2C%20etc\).&text=output%3A%20will%20give%20an%20output%20file%20name%20to%20store%20memory%20report.](https://knowledge.informatica.com/s/article/How-To-check-memory-leak-in-AIX-process?language=en_US#:~:text=In%20AIX%2C%20we%20can%20use,pmserver%2Fpmdtm%2C%20etc).&text=output%3A%20will%20give%20an%20output%20file%20name%20to%20store%20memory%20report.)

HOW TO: Check memory leak in AIX process

Solution

In AIX, we can use the *MALLOCDEBUG* tool for finding memory leak issues for different processes.

To enable memory leak, we can use the tool *MALLOCDEBUG* itself is an environment variable that needs to be set before starting any process (pmserver/pmdtm, etc).

Example

```
export MALLOCDEBUG=report_allocations,stack_depth:20,output:leak_mem
```

- *report_allocations*: means it will report all the allocation
- *output*: will give an output file name to store memory report.
- *stack_depth*: we can set the max number of frames to print

Additional Information

For more details, see <https://www.ibm.com/docs/en/aix/7.2?topic=subsystem-debug-malloc-tool>.

Problem Type

Configuration; Crash/Hang

User Type

Administrator

/oams/v_syb_aix_1/aaa/current->**procmap 25100780**

```
25100780 : /oams/v_syb_aix_1/itx/bin/launcher /oams/v_syb_aix_1/gwpack/systems/GWPACK_Hous
100000000    861K read/exec   launcher
1100001be    11533K read/write launcher
9fffffff0000000  62K read/exec   /usr/ccs/bin/usla64
9fffffff00f82e   0K read/write   /usr/ccs/bin/usla64
90000001735f000  154K read/exec   /oams/v_syb_aix_1/itx/lib/libm4shell.so
8001000a01c6200  234K read/write   /oams/v_syb_aix_1/itx/lib/libm4shell.so
90000002d1678c0  149K read/exec   /usr/lib/libc++.a[shr2_64.o]
9001000a3071abc   0K read/write   /usr/lib/libc++.a[shr2_64.o]
90000000c1823000  85K read/exec   /oams/v_syb_aix_1/aaa/current/lib64/AIX/libgatit.so
9001000a2a487a6   9K read/write   /oams/v_syb_aix_1/aaa/current/lib64/AIX/libgatit.so
```

/oams/v_syb_aix_1/aaa/current->**procmap**

Usage : procmap [-F] [-S] {-X [-f] [-n] [-u] [-q]} pid ...

(report process address maps)

- F : Force grabbing of the target process
- f : Display the filename for the mapped file, if device number and inode is available.
- n : Displays unsorted address ranges for the mapped segments. It can be used with -X flag.
- q : Suppresses the header information. It can be used with -X flag.
- S : Display Shared Memory Information of the target process.
- u : Displays the values in the most appropriate unit. It can be used with -X flag.
- X : Displays sorted extended information about each address range and includes all mapped objects.

Sybase patch download site - Running installation scripts

06 December 2024 18:45

<https://me.sap.com/softwareproduct/67838200100900007308>

Running the installmaster script

Using isql, run the new installmaster script included with this release using the following syntax. Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installmaster  
-o<output file>
```

(Windows): (Note the different script name for Windows)

```
isql -Usa -P<sa password> -S<server name> -n  
-i%SYBASE%\%SYBASE_ASE%\scripts\instmstr  
-o<output file>
```

Running the installmodel script

Using isql, run the new installmodel script included with this release using the following syntax. Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installmodel  
-o<output file>
```

(Windows): (Note the different script name for Windows)

```
isql -Usa -P<sa password> -S<server name> -n  
-i%SYBASE%\%SYBASE_ASE%\scripts\instmodl  
-o<output file>
```

Running the installcommit script

If you use two-phase commit or distributed transactions, you need to rerun the installcommit SQL script to restore the following stored procedures:

```
sp_start_xact  
sp_abort_xact  
sp_remove_xact  
sp_stat_xact  
sp_scan_xact  
sp_probe_xact
```

Using isql, run the new installcommit script included with this release.

Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installcommit  
-o<output file>
```

(Windows): (Note the different script name for Windows)

```
isql -Usa -P<sa password> -S<server name> -n  
-i%SYBASE%\%SYBASE_ASE%\scripts\instcomm
```

-o<output file>

Running the installsecurity script

If the SAP ASE Auditing functionality was enabled in your installation of SAP ASE, you will need to rerun the installsecurity script.

Using isql, run the new installsecurity script included with this release.

Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installsecurity  
-o<output file>
```

(Windows): (Note the different script name for Windows)

```
isql -Usa -P<sa password> -S<server name> -n  
-i%SYBASE%\%SYBASE_ASE%\scripts\instsecu  
-o<output file>
```

Running the instmsgs.ebf script

Running the instmsgs.ebf script brings your SAP ASE messages up to the level of this EBF.

Using isql, run the new instmsgs.ebf script included with this release.

Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n  
-i$SYBASE/$SYBASE_ASE/scripts/instmsgs.ebf  
-o<output file>
```

(Windows):

```
isql -Usa -P<sa password> -S<server name> -n  
-i%SYBASE%\%SYBASE_ASE%\scripts\instmsgs.ebf  
-o<output file>
```

Running the installhasvss script

If the HA functionality is enabled and the HA feature is being used in this installation of SAP ASE, the installhasvss script must be run.

This does not need to be run on Solaris x64 platforms or Power PC platforms.

Using isql, run the installhasvss script that is included with this release. Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installhasvss  
-o<output file>
```

(Windows): (Note the different script name for Windows)

```
isql -Usa -P<sa password> -S<server name> -n  
-i%SYBASE%\%SYBASE_ASE%\scripts\insthasvss  
-o<output file>
```

Running the installmsgvss script

If the SAP RTDS ASE MESSAGING functionality is enabled and the SAP RTDS ASE MESSAGING feature is being used in this installation of ASE, then the installmsgvss script must be run.

Using isql, run the installmsgvss script that is included with this release. Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n
```

```
-i$SYBASE/$SYBASE_ASE/scripts/installmsgvss
```

```
-o<output file>
```

(Windows):

```
isql -Usa -P<sa password> -S<server name> -n
```

```
-i%SYBASE%\%SYBASE_ASE%\scripts\installmsgvss
```

```
-o<output file>
```

Running the installdbccdb script

If the dbccdb database has been created and being used in this installation of SAP ASE, you will need to rerun the installdbccdb script.

Using isql, run the installdbccdb script that is included with this release. Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n
```

```
-i$SYBASE/$SYBASE_ASE/scripts/installdbccdb
```

```
-o<output file>
```

(Windows):

```
isql -Usa -P<sa password> -S<server name> -n
```

```
-i%SYBASE%\%SYBASE_ASE%\scripts\installdbccdb
```

```
-o<output file>
```

Running the installpcidb script

If the Java in database functionality was enabled during the installation or upgrade, run installpcidb script to create tables and stored procedures in the sybpcidb database.

Using isql, run the installpcidb script that is included with this release.

Save the output of this step to an operating system file.

(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name>
```

```
-i$SYBASE/$SYBASE_ASE/scripts/installpcidb
```

```
-o<output file>
```

(Windows):

```
isql -Usa -P<sa password> -S<server name>
```

```
-i%SYBASE%\%SYBASE_ASE%\scripts\installpcidb
```

```
-o<output file>
```

If you are upgrading a 15.0.x SAP Adaptive Server and have disabled the Java in database feature before installation, you must enable the Java in database functionality.

```
1> sp_configure 'enable pci', 1
```

```
2> go
```

```
1> sp_configure 'enable java', 1
```

```
2> go
```

You may need to increase the 'max memory' in order to enable these parameters. Configure the maximum size of the PCI Bridge memory pool through the 'pci memory size' configuration parameter. For more information see Java in SAP Adaptive Server Enterprise for 16.0.

These configuration parameters are static. So you must restart SAP Adaptive Server for these changes to take effect.

Running the installjsdb script

If you have installed SAP Adaptive Server with the Job Scheduler feature enabled:

1. Stop Job Scheduler by issuing the following command from an isql

session:

```
use sybmgmtdb
go
sp_sjobcontrol @name=NULL, @option="stop_js"
go
```

2. Using isql, run the installjsdb script included with this release.
(Linux/Unix):

```
isql -Usa -P<sa password> -S<server name> -n
-i$SYBASE/$SYBASE_ASE/scripts/installjsdb
-o<output file>
```

- (Windows):

```
isql -Usa -P<sa password> -S<server name> -n
-i%SYBASE%\%SYBASE_ASE%\scripts\installjsdb
-o<output file>
```

3. Start Job Scheduler by issuing the following commands from an isql session:

```
use sybmgmtdb
go
sp_sjobcontrol @name=NULL, @option="start_js"
go
```

Oracle XML C API References

06 December 2024 23:07

[The C API for XML](#)

ITX Release Notes.

04 December 2024 12:25

[Transformation Extender V10.1.2.0 Fix List](#)

[Transformation Extender V10.1.0.2 Fix List](#)

admin menu sybase - usage

30 November 2024 09:15

/oams/v_syb_aix_m1/aaa/current/std_admin/scripts->./admin_menu_sybase.sh

=====

TRIPLE'A SYBASE ADMINISTRATION

=====

User val on laulpar06 30_11_2024 04:46

=====

1. Check the Sybase servers
2. Tail the Sybase server log file
3. Tail the Sybase backup server log file
4. Get the user connections
5. Get the free space in the databases segments
6. Check the results of the last databases dump
7. Check the results of the last consistency check
8. Execute a manual databases dump
9. Check the dump tran daemon
10. Launch an update statistics

20. Triple'A Administration Menu

99. Exit

Enter your choice:

=====

TRIPLE'A ADVANTAGE ADMINISTRATION

=====

User val on laulpar06 30_11_2024 04:46

=====

1. Get the version of Triple'A components
2. Check an Open Server
3. Start an Open Server
4. Stop an Open Server
5. Check all Open Servers
6. Start all Open Servers
7. Stop all Open Servers
8. Enable all GUI
9. Disable all GUI
10. Kill all GUI
11. Kill a user GUI
12. Get the list of GUI connected users
13. Tail Server.log
14. Tail Error log

30. Sybase Menu

99. Exit

Enter your choice:

AIX compilation in develop

25 November 2024 13:40

```
/nas/prod_ref/users/hla/TA/develop/triplea_core/arch/unix> export CMAKE_AIX_COMPILER_PATH=""
```

```
/nas/prod_ref/users/hla/TA/develop/triplea_core/arch/unix> ./_cm.sh -b -g 2>&1|tee -a lax.log
```

```
/usr/bin/ar -X32_64 rc ..//bin/libgatit.a libgatit.so
```

AIX dlopen related issues pages:

<https://stackoverflow.com/questions/27808779/make-aix-load-all-shared-symbols-at-run-time>

<https://stackoverflow.com/questions/15021865/is-there-an-alternative-to-rtld-deepbind-flag-in-dlopen-function-for-platforms>

```
$AAAHOME/> Export TX_INSTALL_DIR=/oams/v_syb_231_1/itx or export TX_INSTALL_DIR=/oams/v_syb_aix_1/itx
```

Message: Symbol resolution failed for /oams/v_syb_231_1/aaa/current/lib64/AIX/libnnz19.so because:

Symbol XmlCreate (number 155) is not exported from dependent

module launcher.

Symbol XmlLoadDom (number 156) is not exported from dependent

module launcher.

Examine .loader section symbols with the 'dump -Tv' command.

```
/nas/prod_ref/users/hla/TA/develop/triplea_core/arch/unix/cmake/AIX/64/debug/bin->dump -X32_64 -Tv libgatit.so |grep XmlCreate
```

```
[158] 0x110000f08 .data EXP DS SECdef [noMid] XmlCreate
```

Qt documentation and Release notes

15 November 2024 12:03

<https://doc.qt.io/qt-5/whatsnew515.html>

<https://doc.qt.io/qt-5/whatsnew514.html>

Dict_build_rule_e: Building of the entities through inheritance

13 November 2024 13:57

```
REM ##### Entity inherited options
REM #####
REM #### Rule:
REM #### dict_build_rule_e
REM #### 0: None
REM #### 1: All linked entity
REM #### 2: UD fields of the linked entity
REM ####
REM #####
CMD UPDATE xd_entity
ATT sqlname_c dict_build_rule_e linked_xd_entity_id.sqlname_c
DAT ret_analysis_global;2;ext_ret_analysis
```

All udf on standard_perf should be on ext_ret_analysis udf and all ext_ret_analysis udf should on ret_analysis_detail and ret_analysis_global in the same order.

It seems that we have an issue on that.

As work-around, I can provided the two following shell query:

```
sed -i 's/DAT ret_analysis_global;2;ext_ret_analysis/DAT ret_analysis_global;0;ext_ret_analysis/g' $AAAHOME/ddl/md/std/0830_ret_analysis_global.imp
sed -i 's/DAT ret_analysis_detailed;2;ext_ret_analysis;/DAT ret_analysis_detailed;0;ext_ret_analysis;/g' $AAAHOME/ddl/md/std/0829_ret_analysis_detailed.imp
```

There no impact of the product, because these two entities are only used to insert the performance data with BCP (only on Sybase).

Finally that is clearly not an issue on the migration tool, but on installation process with specific customization files.

From <<http://rd.temenosgroup.com/browse/PMSTA-54350>>

MAPS Converting MMS into XML files

11 November 2024 19:50

W:\GWPACK\9.2.0\Maps>set path=C:\IBM\WebSphere Transformation Extender 9.0.0;%path%

O:\itx>mexport

mexport command line utility usage:

IBM Sterling Transformation Extender
Licensed Materials - Property of IBM, (c) Copyright IBM Corporation 2006, 2022 All rights reserved.
Version : 10.1.1.1(8)

```
mexport <.mms file> [-NO]
  [-O <.xml file name/location>]
  [(-LOG [. | <log file name/location>]
    [-FAIL] [-VERBOSE] [-APPEND])
   | -NOLOG]
```

mexport - Name of the exporting map source file utility
.mms file - Map source file name that needs to be exported
-O - Specify the location and/or file name for the
 exported xml file
-NO - Do not overwrite exported xml file
-LOG - Enables mexport's logging
 To specify the location and/or file name for the log file
-NOLOG - Disable mexport's logging
-FAIL - Log failures only
-APPEND - Append to the existing mexport's log file
-VERBOSE - Verbose mexport log file

W:\GWPACK\9.2.0\Maps>mexport GWPACK_F2B.mms

W:\GWPACK\9.2.0\Maps>for /f %a in ('dir /b *mms') do @mexport %a

W:\GWPACK\9.2.0\Maps>type *xml|find /i "gitit"

W:\GWPACK\9.2.0\Maps>notepad++ GWPACK_F2B_MM_FX_Return.xml

```
</objectrule>
</MapRule>
<MapRule rulenumber="27">
<objectset>Record_Loan_Can_Ack:Can_Acknowledgment</objectset>
<objectrule>=FCT_Loan_Can_Acknowledgment(
  EleDecl Acknowledgment Comp:Choice:EleDecl Cancellation Comp:Choice:TypeDef LoanF2BTransaction Type:EleDecl Loan Comp:Choice:EleDecl DepositLoan:EleDecl DataGroup Comp:Seq:EleDecl
  F2B_MM_FX Element:XML_Data,
  GLOBAL_SET_LINES,
  UDF_Atfile,
  EITHER(description Attr:AttrList:EleDecl DepositLoan:EleDecl DataGroup Comp:Seq:EleDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:EleDecl DepositLoan:EleDecl DataGroup Comp:Seq:EleDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Atfile
)</objectrule>
</MapRule>
<MapRule rulenumber="107">
<objectset>Record_Cash_Can_Inv_Ack:Can_Acknowledgment</objectset>
<objectrule>=FCT_Cash_Can_InvestAck(
  EleDecl InvestmentRequestAcknowledgment Comp:Choice:EleDecl Cancellation Comp:Choice:EleDecl Cash:EleDecl DataGroup Comp:Seq:EleDecl F2B_MM_FX Element:XML_Data,
  GLOBAL_SET_LINES,
  UDF_Atfile,
  EITHER(description Attr:AttrList:EleDecl DepositLoan:EleDecl DataGroup Comp:Seq:EleDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:EleDecl DepositLoan:EleDecl DataGroup Comp:Seq:EleDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Atfile
)</objectrule>
</MapRule>
<MapRule rulenumber="108">
<objectset>Record_Cash_Can_Withd_Ack:Can_Acknowledgment</objectset>
<objectrule>=NONE</objectrule>
</MapRule>
</Output>
<Output>
<Schema cardnumber="10"
  cardname="Can_Ok"
  typetree=".\\typetrees\\GWPACK_F2B_MM_ext_operation.mtt"
  type="File_Can_Ok ext_operation"/>
<NameSpaces/>
<TargetRule>
<PUT>
<SINK_Target>
<SINK_Target.Transaction OnSuccess="Create" OnFailure="Rollback" Scope="Map" Warnings="Ignore"/>
<DocumentVerification>Never</DocumentVerification>
</SINK_Target>
</PUT>
<Backup Switch="OFF" When="Always">
<BackupLocation.File>
<Directory.Custom></Directory.Custom>
<FileName.Custom action="Create"></FileName.Custom>
</BackupLocation.File>
</Backup>
</TargetRule>
<SyntaxCard>OFF</SyntaxCard>
<MapRule rulenumber="28">
```

```

<objectset>Header headerLine:Can_Ok</objectset>
<objectrule>=>NONE</objectrule>
</MapRule>
<MapRule rulenumber="29">
<objectset>Record_Spot_Can_Ok:Can_Ok</objectset>
<objectrule>=>FCT_Spot_Can_Ok(
  EleDecl CancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElemDecl ForexSpot Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
  GLOBAL_SET_LINES,
  UDF_Attfile,
  EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot; &quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attfile
)</objectrule>
</MapRule>
<MapRule rulenumber="30">
<objectset>Record_Fw_Can_Ok:Can_Ok</objectset>
<objectrule>=>FCT_Fw_Can_Ok(
  EleDecl CancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
  GLOBAL_SET_LINES,
  UDF_Attfile,
  EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot; &quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attfile
)</objectrule>
</MapRule>
<MapRule rulenumber="31">
<objectset>Record_Dep_Can_Ok:Can_Ok</objectset>
<objectrule>=>FCT_Dep_Can_Ok(
  EleDecl cancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef DepositF2BTransaction Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
  GLOBAL_SET_LINES,
  UDF_Attfile,
  EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot; &quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attfile
)</objectrule>
</MapRule>
<MapRule rulenumber="32">
<objectset>Record_Loan_Can_Ok:Can_Ok</objectset>
<objectrule>=>FCT_Loan_Can_Ok(
  EleDecl cancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
  GLOBAL_SET_LINES,
  UDF_Attfile,
  EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot; &quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attfile
)</objectrule>
</MapRule>
</Output>
<Output>
<Schema cardnumber="11"
  cardname="notepad"
  typetree=".\\typetrees\\GWPACK_F2B_MM_notepad.mtt"
  type="File notepad"/>
<NameSpaces/>
<TargetRule>
<PUT>
<SINK_Target>
<SINK_Target.Transaction OnSuccess="Create" OnFailure="Rollback" Scope="Map" Warnings="Ignore"/>
<DocumentVerification>Never</DocumentVerification>
</SINK_Target>
</PUT>
<Backup Switch="OFF" When="Always">
<BackupLocation.File>
<Directory.Custom></Directory.Custom>
<FileName.Custom action="Create"></FileName.Custom>
</BackupLocation.File>
</Backup>
</TargetRule>
<SyntaxCard>OFF</SyntaxCard>
<MapRule rulenumber="33">
<objectset>Header headerLine:notepad</objectset>
<objectrule>=>NONE</objectrule>
</MapRule>
<MapRule rulenumber="34">
<objectset>Spot_Pur_Ack records:notepad</objectset>
<objectrule>=>FCT_Spot_Pur_Ack_NotePad(
  EXTRACT(
    EleDecl purchaseAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElemDecl ForexSpot Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
    PRESENT(
      EleDecl notepad Comp:Seq:TypeDef ForexSpotPurchaseAcknowledgmentObject:ElemDecl purchaseAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElemDecl ForexSpot Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
    )
  )
, &quot;operation&quot;,
  GLOBAL_SET_LINES,
  EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot; &quot;),
  EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attfile

```

```

)</objectrule>
</MapRule>
<MapRule rulenumber="35">
<objectset>Spot_Sale_Ack records:notepad</objectset>
<objectrule>FCT_Spot_Sale_Ack_NotePad(
    EXTRACT(
        ElelDecl saleAcknowledgment Comp:Choice:ElelDecl OrderLifeCycle Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup
        Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElelDecl notepad Comp:Seq:TypeDef ForexSpotSaleAcknowledgmentObject:ElelDecl saleAcknowledgment Comp:Choice:ElelDecl OrderLifeCycle Comp:Choice:TypeDef ForexSpotF2BTransaction
            Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="36">
<objectset>Spot_Pur_Can_Ack records:notepad</objectset>
<objectrule>FCT_Spot_Can_Pur_Ack_NotePad(
    EXTRACT(
        ElelDecl purchaseAcknowledgment Comp:Choice:ElelDecl Cancellation Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl
        DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElelDecl notepad Comp:Seq:TypeDef ForexSpotCancellationPurchaseAcknowledgmentObject:ElelDecl purchaseAcknowledgment Comp:Choice:ElelDecl Cancellation Comp:Choice:TypeDef
            ForexSpotF2BTransaction Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="37">
<objectset>Spot_Sale_Can_Ack records:notepad</objectset>
<objectrule>FCT_Spot_Can_Sale_Ack_NotePad(
    EXTRACT(
        ElelDecl saleAcknowledgment Comp:Choice:ElelDecl Cancellation Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup
        Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElelDecl notepad Comp:Seq:TypeDef ForexSpotCancellationSaleAcknowledgmentObject:ElelDecl saleAcknowledgment Comp:Choice:ElelDecl Cancellation Comp:Choice:TypeDef
            ForexSpotF2BTransaction Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="38">
<objectset>Can_Ok records:notepad</objectset>
<objectrule>FCT_Spot_Can_Ok_NotePad(
    EXTRACT(
        ElelDecl CancelOk Comp:Choice:ElelDecl Cancellation Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElelDecl ForexSpot Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup
        Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElelDecl notepad Comp:Seq:TypeDef ForexSpotCancelOkObject:ElelDecl CancelOk Comp:Choice:ElelDecl Cancellation Comp:Choice:TypeDef ForexSpotF2BTransaction Type:ElelDecl ForexSpot
            Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="39">
<objectset>Fw_Pur_Ack records:notepad</objectset>
<objectrule>FCT_Fw_Pur_Ack_NotePad(
    EXTRACT(
        ElelDecl purchaseAcknowledgment Comp:Choice:ElelDecl OrderLifeCycle Comp:Choice:TypeDef ForwardF2BTransaction Type:ElelDecl Forward Comp:Choice:ElelDecl ForexForward:ElelDecl
        DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElelDecl notepad Comp:Seq:TypeDef ForwardPurchaseAcknowledgmentObject:ElelDecl purchaseAcknowledgment Comp:Choice:ElelDecl OrderLifeCycle Comp:Choice:TypeDef
            ForwardF2BTransaction Type:ElelDecl Forward Comp:Choice:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElelDecl ForexForward:ElelDecl DataGroup Comp:Seq:ElelDecl F2B_MM_FX Element:XML_Data), &quot; &quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="40">

```

```

<objectset>Fw_Sale_Ack records:notepad</objectset>
<objectrule>=FCT_Fw_Sale_Ack_Notepad(
    EXTRACT(
        ElemDecl saleAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup
        Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef ForwardSaleAcknowledgmentObject:ElemDecl saleAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef ForwardF2BTransaction
            Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot;&quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="41">
<objectset>Fw_Pur_Can_Ack records:notepad</objectset>
<objectrule>=FCT_Fw_Can_Pur_Ack_NotePad(
    EXTRACT(
        ElemDecl purchaseAcknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup
        Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef ForwardPurchaseCancellationAcknowledgmentObject:ElemDecl purchaseAcknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef
            ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot;&quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="42">
<objectset>Fw_Sale_Can_Ack records:notepad</objectset>
<objectrule>=FCT_Fw_Can_Sale_Ack_NotePad(
    EXTRACT(
        ElemDecl saleAcknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup
        Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef ForwardSaleCancellationAcknowledgmentObject:ElemDecl saleAcknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef
            ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot;&quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="43">
<objectset>Fw_Can_Ok records:notepad</objectset>
<objectrule>=FCT_Fw_Can_Ok_NotePad(
    EXTRACT(
        ElemDecl CancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef ForwardF2BTransaction Type:ElemDecl Forward Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup
        Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef ForwardCancelOkObject:ElemDecl CancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef ForwardF2BTransaction Type:ElemDecl Forward
            Comp:Choice:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl ForexForward:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot;&quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="44">
<objectset>Dep_OpenAck records:notepad</objectset>
<objectrule>=FCT_Dep_OpenAck_NotePad(
    EXTRACT(
        ElemDecl openAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef DepositF2BTransaction Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup
        Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef depositAcknowledgmentObject:ElemDecl openAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef DepositF2BTransaction
            Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,&quot;operation&quot;;
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), &quot;&quot;)
,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="45">
<objectset>Dep_CloseAck records:notepad</objectset>
<objectrule>=FCT_Dep_CloseAck_NotePad(
    EXTRACT(

```

```

ElemDecl closingAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef DepositF2BTransaction Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup
Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
PRESENT(
    ElemDecl notepad Comp:Seq:TypeDef depositClosingAcknowledgmentObject:ElemDecl closingAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef DepositF2BTransaction
    Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
)
),
, &quot;operation&quot;;
GLOBAL_SET_LINES,
EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX ElementXML_Data), &quot; &quot;)

,MB_Attrfile
)
</MapRule>
<MapRule rulenumber="46">
<objectset>Dep_Can_Ack records:notepad</objectset>
<objectrule>=FCT_Dep_Can_Ack_NotePad(
EXTRACT(
    ElemDecl Acknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef DepositF2BTransaction Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup
    Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
    PRESENT(
        ElemDecl notepad Comp:Seq:TypeDef depositCancelAcknowledgmentObject:ElemDecl Acknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef DepositF2BTransaction
        Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
    )
),
, &quot;operation&quot;;
GLOBAL_SET_LINES,
EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX ElementXML_Data), &quot; &quot;)

,MB_Attrfile
)
</MapRule>
<MapRule rulenumber="47">
<objectset>Dep_Can_Ok records:notepad</objectset>
<objectrule>=FCT_Dep_Can_Ok_NotePad(
EXTRACT(
    ElemDecl cancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef DepositF2BTransaction Type:ElemDecl Deposit Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl
    F2B_MM_FX Element:XML_Data,
    PRESENT(
        ElemDecl notepad Comp:Seq:TypeDef depositCancelOkObject:ElemDecl cancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef DepositF2BTransaction Type:ElemDecl Deposit
        Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
    )
),
, &quot;operation&quot;;
GLOBAL_SET_LINES,
EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX ElementXML_Data), &quot; &quot;)

,MB_Attrfile
)
</MapRule>
<MapRule rulenumber="48">
<objectset>Loan_OpenAck records:notepad</objectset>
<objectrule>=FCT_Loan_OpenAck_NotePad(
EXTRACT(
    ElemDecl openAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup
    Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
    PRESENT(
        ElemDecl notepad Comp:Seq:TypeDef loanAcknowledgmentObject:ElemDecl openAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl
        Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
    )
),
, &quot;operation&quot;;
GLOBAL_SET_LINES,
EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX ElementXML_Data), &quot; &quot;)

,MB_Attrfile
)
</MapRule>
<MapRule rulenumber="49">
<objectset>Loan_CloseAck records:notepad</objectset>
<objectrule>=FCT_Loan_CloseAck_NotePad(
EXTRACT(
    ElemDecl closingAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup
    Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
    PRESENT(
        ElemDecl notepad Comp:Seq:TypeDef loanClosingAcknowledgmentObject:ElemDecl closingAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:TypeDef LoanF2BTransaction
        Type:ElemDecl Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
    )
),
, &quot;operation&quot;;
GLOBAL_SET_LINES,
EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, &quot;&quot;),
EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX ElementXML_Data), &quot; &quot;)

,MB_Attrfile
)
</MapRule>
<MapRule rulenumber="50">
<objectset>Loan_Can_Ack records:notepad</objectset>
<objectrule>=FCT_Loan_Can_Ack_NotePad(
EXTRACT(
    ElemDecl Acknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup
    Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
    PRESENT(

```

```

        ElemDecl notepad Comp:Seq:TypeDef loanCancelAcknowledgmentObject:ElemDecl Acknowledgment Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl
        Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
    )
}
,""operation",
GLOBAL_SET_LINES,
EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, ""),
EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), "")

,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="51">
<objectset>Loan_Can_Ok records:notepad</objectset>
<objectrule>=FCT_Loan_Can_Ok_NotePad(
    EXTRACT(
        ElemDecl cancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl Loan Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl
        F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef loanCancelOkObject:ElemDecl cancelOk Comp:Choice:ElemDecl Cancellation Comp:Choice:TypeDef LoanF2BTransaction Type:ElemDecl Loan
            Comp:Choice:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,"operation",
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, ""),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl DepositLoan:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), "")

,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="109">
<objectset>Cash_invAck records:notepad</objectset>
<objectrule>=FCT_Cash_invAck_NotePad(
    EXTRACT(
        ElemDecl InvestmentRequestAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:ElemDecl Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef CashInvestmentRequestObject Type:ElemDecl InvestmentRequestAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:ElemDecl
            Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,"operation",
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, ""),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), "")

,MB_Attrfile
)</objectrule>
</MapRule>
<MapRule rulenumber="110">
<objectset>Cash_withdAck records:notepad</objectset>
<objectrule>=FCT_Cash_withdAck_NotePad(
    EXTRACT(
        ElemDecl WithdrawalRequestAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:ElemDecl Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data,
        PRESENT(
            ElemDecl notepad Comp:Seq:TypeDef CashInvestmentRequestObject Type:ElemDecl WithdrawalRequestAcknowledgment Comp:Choice:ElemDecl OrderLifeCycle Comp:Choice:ElemDecl
            Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data
        )
    )
    ,"operation",
    GLOBAL_SET_LINES,
    EITHER(description Attr:AttrList:ElemDecl Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data, ""),
    EITHER(NUMBERTOTEXT(sequenceNumber Attr:AttrList:ElemDecl Cash:ElemDecl DataGroup Comp:Seq:ElemDecl F2B_MM_FX Element:XML_Data), "")

,MB_Attrfile
)</objectrule>
</MapRule>
</Output>
<Output>
<Schema cardnumber="12"
    cardname="Import"
    typeTree="..\typeTrees\GWPACK_F2B_Import.mtt"
    type="File Import"/>
<NameSpaces/>
<TargetRule>
<PUT>
<_Target>
<Command>
    libgatit.%LIBGATIT_EXTENSION%,DLLImport,'Online -U %GWPACK_AAAUSER% -P %GWPACK_AAAUSERPWD% %GWPACK_ONLINE_IMPORT_OPTIM%'</Command>
/>

```

Oracle: dynamic sql query execution and return results

10 November 2024 21:34

```
create or replace procedure EXEC_DYNAMIC_SQL (
    p_sql IN varchar2)
as
begin
    DECLARE rc SYS_REFCURSOR;
BEGIN
    OPEN rc FOR p_sql;
    dbms_sql.return_result( rc );
END ;
end;
/
```

Ddlgen stored procedure code generation

02 November 2024 20:04

DdlgenFromfile::createSProcHeader from dd़lgenfromfile.cpp

```

-> setStdProc
-> newOutDdlGen
-> new DdlGenSProc (Proc Object Creation)

-> setSProcExtraParam - Parses all the parameter list and create the outDdlGenSprocPtr->extraParamList
-> setDdlObjFullSqlName
-> DdlGenSproc::drop()
-> DdlGen::flush() - dd़lgen.cpp /* bodySqlBlock.str() contains the sql statement construction */
-> DdlGenStream - Contains the generated sql
-> DdlGen::executeFlush() /* getDdlObjFromDb will dump message on screen */
-> this->printEndBlockToFile()

-> createSProcDeclare()
-> addVariable() /* DdlGenVarHelper.variableList contains all the variables in the declare section */

```

dd़lgenmsg.cpp:DdlGenMsg::printMsg -> output string printed on the console.

	Name	Value	Type
►	stringbuf	0x02e83ee0 "Stored Proc. on entity extended_pos - sel_exd_position_by_pid_st_dt creation: Creating (PROCESS)"	std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char>>

Each Tag Execution

```

> aaa_ddlgen.debug.exe!DdlGenFromFile::buildBlock(DDL_OBJ_ENUM paramOutDdlObjEn=DdlObj_None) Line 13113 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFromFile::build() Line 12329 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFullTable::buildStoredProceduresInDB() Line 12558 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_BuildOneDdlObjectFromFullTable(ThreadArg * paramDdlGenBuildInfo=0x02cfcc0) Line 2837 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServBuildOneDdlObject(DdlGenAction & ddlGenAction={...}, DdlGenBuildInfo & ddlGenBuildInfo={...}, ThreadPool * dd़lGenThreadPoolPtr=0x00000000) Line 2999 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServBuildDdlObject(DdlGenContext & ddlGenContext={...}, DdlGenAction & ddlGenAction={...}) Line 3859 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServInstallDdlObject(DdlGenAction & ddlGenAction={...}, DdlGenContext & ddlGenContext={...}) Line 3603 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServInstallDdlObjectByParam() Line 3240 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainTripleAProgram(int argc=6, char ** argv=0x02e7fca8) Line 215 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainTripleA(int argc=6, char ** argv=0x02e7fca8) Line 617 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainExceptionHandling(int argc=6, char ** argv=0x02e7fca8) Line 167 C++ Symbols loaded.
aaa_ddlgen.debug.exe!main(int argc=6, char ** argv=0x02e7fca8) Line 38 C++ Symbols loaded.

> aaa_ddlgen.debug.exe!DdlGenFromFile::buildBlock(DDL_OBJ_ENUM paramOutDdlObjEn=DdlObj_None) Line 13508 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFromFile::build() Line 12329 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFullTable::buildStoredProceduresInDB() Line 12558 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_BuildOneDdlObjectFromFullTable(ThreadArg * paramDdlGenBuildInfo=0x00b5cd74) Line 2837 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServBuildOneDdlObject(DdlGenAction & ddlGenAction={...}, DdlGenBuildInfo & ddlGenBuildInfo={...}, ThreadPool * dd़lGenThreadPoolPtr=0x00000000) Line 2999 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServBuildDdlObject(DdlGenContext & ddlGenContext={...}, DdlGenAction & ddlGenAction={...}) Line 3859 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServInstallDdlObject(DdlGenAction & ddlGenAction={...}, DdlGenContext & ddlGenContext={...}) Line 3603 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServInstallDdlObjectByParam() Line 3240 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainTripleAProgram(int argc=6, char ** argv=0x034bf228) Line 215 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainTripleA(int argc=6, char ** argv=0x034bf228) Line 617 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainExceptionHandling(int argc=6, char ** argv=0x034bf228) Line 167 C++ Symbols loaded.
aaa_ddlgen.debug.exe!main(int argc=6, char ** argv=0x034bf228) Line 38 C++ Symbols loaded.

```

Writing into file:

```

> aaa_ddlgen.debug.exe!DdlGen::flush(const std::basic_string<char, std::char_traits<char>, std::allocator<char> & message={...}) Line 8296 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFromFile::buildBlock(DDL_OBJ_ENUM paramOutDdlObjEn=DdlObj_None) Line 13980 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFromFile::build() Line 12329 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DdlGenFullTable::buildStoredProceduresInDB() Line 12558 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_BuildOneDdlObjectFromFullTable(ThreadArg * paramDdlGenBuildInfo=0x00b5cd74) Line 2837 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServBuildOneDdlObject(DdlGenAction & ddlGenAction={...}, DdlGenBuildInfo & ddlGenBuildInfo={...}, ThreadPool * dd़lGenThreadPoolPtr=0x00000000) Line 2999 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServBuildDdlObject(DdlGenContext & ddlGenContext={...}, DdlGenAction & ddlGenAction={...}) Line 3859 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServInstallDdlObject(DdlGenAction & ddlGenAction={...}, DdlGenContext & ddlGenContext={...}) Line 3603 C++ Symbols loaded.
aaa_ddlgen.debug.exe!DBA_ServInstallDdlObjectByParam() Line 3240 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainTripleAProgram(int argc=6, char ** argv=0x034bf228) Line 215 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainTripleA(int argc=6, char ** argv=0x034bf228) Line 617 C++ Symbols loaded.
aaa_ddlgen.debug.exe!mainExceptionHandling(int argc=6, char ** argv=0x034bf228) Line 167 C++ Symbols loaded.
aaa_ddlgen.debug.exe!main(int argc=6, char ** argv=0x034bf228) Line 38 C++ Symbols loaded.

```

	Name	Value	Type
►	m_ddlGenFromFileContextPtr	0x08a51458 {currLineStr="#" EXEC init_dom_port_for_third_party @port_object_id = @port_object_id, "..."}	DdlGenFromFileContext *
►	__vfptr	0x01b52734 {aaa_ddlgen.debug.exe!void(* DdlGenFromFileContext::`vftable'[2])}	void * *

	() {0x00419d68 {aaa_ddlgen.debug.exe!DdlGenFromFileContext::`vector deleting destructor'(unsigned int)}}	
► currLineStr	" #EXEC init_dom_port_for_third_party @port_object_id = @port_object_id,"	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
► currLineStrLTrim	"#EXEC init_dom_port_for_third_party @port_object_id = @port_object_id,"	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
► currBlockVector	{ size=11 }	std::vector<std::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::allocator<std::basic_string<char, std::char_traits<char>, std::allocator<char> >> >
bInitCurrLineIt	true	bool
bUpdateIndent	true	bool
► currLineIt	" #EXEC init_dom_port_for_third_party @port_object_id = @port_object_id,"	std::vector<std::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::allocator<std::basic_string<char, std::char_traits<char>, std::allocator<char> >> >
lineNb	5	int
blockLineBeginNb	1535	int
currTagNat	TagSql_None (0)	DDL_TAG_NAT_ENUM
► currTag	"EXEC"	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
► currDdlGen	0x00000000 <NULL>	DdlGen *
parentTagNat	TagSql_If (27)	DDL_TAG_NAT_ENUM
► outDdlGenPtr	0x231e71d0 {extraParamList={ size=0 } m_bFromPscFile=false m_bCustomBody=false ...}	DdlGen * {DdlGenSProc}
► parentPreIndent	""	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
bflIgnored	false	bool
► parentContextPtr	0x00000000 <NULL>	DdlGenFromFileContext *
forcedViewEn	View_None (0)	DDL_VIEW_ENUM
bForceOwnerBusinessEntity	false	bool
► pscStream	0x00000000 ""	std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >
m_position	ElseIf (3)	DdlGenFromFileContext::Position
m_elseResultsSetPos	0	int
► m_ifResultsSetVector	{ size=0 }	std::vector<DictSprocReturnsClass, std::allocator<DictSprocReturnsClass> >
objectEn	270	int

Deriving parameter assignment functions:

1. ddlgendbi.cpp:DdlGenDbi::getParamAssign
2. ddlgendbi.cpp:DdlGenDbi::getVarPrefix
3. ddlgendbi.cpp:DdlGenDbi::getParamPrefix
4. ddlgendbi.cpp:DdlGenDbi::getTempTablePrefix
5. ddlgendpi.cpp:DdlGenDbi::getEmptyFrom

Formation of assignment parameter in **ddlgendfromfile.cpp**

```
paramLineVector[posParam] = this->context->outDdlGenPtr->getParamAssign(paramName) + paramValue + outputStr;
```

Expression:

paramLineVector	
Name	Value
► paramLineVector	{ size=5 }
► [capacity]	5
► [allocator]	allocator
► [0]	"p_port_object_id => p_port_object_id"
► [1]	"p_data_profile_id => p_data_profile_id"
► [2]	"p_third_compo_e => p_third_compo_e"
► [3]	"p_ownership_rule_e => p_ownership_rule_e"
► [4]	"p_validity_d => p_end_d"
► [Raw View]	{...}

Final Formation of stored procedure:ddlgendfromfile.cpp

```
if (RET_GET_LEVEL(ret) != RETLEV_ERROR &&
```

```

RET_GET_LEVEL((ret = this->context->outDdlGenPtr->printHeader()) != RETLEV_ERROR &&
RET_GET_LEVEL((ret = this->context->outDdlGenPtr->printFooter()) != RETLEV_ERROR)
{
    ret = this->context->outDdlGenPtr->flush();
}

```

(DdlGenFromFile *)this->context->outDdlGenPtr - Final stored procedure contents.

Expression:		
this->context->outDdlGenPtr		Evaluate Add Watch
Name	Value	Type
↳ this	0x0d8d9a40 (bPrintRowCount=true bServerOutput=true bAutoCommit=true ...)	DdlGenFromFile *
↳ DdlGenMsg	(msgSqlName="init_exd_position_by_domain" msgEntitySqlName="extended_pos" msgFileName=...	DdlGenMsg
↳ bPrintRowCount	true	bool
↳ bServerOutput	true	bool
↳ bAutoCommit	true	bool
↳ bKeepConnection	false	bool
↳ bKeepData	false	bool
↳ bKeepResultSetData	false	bool
↳ optimLevel	0	int
↳ bAlternativeGreedySearch	true (205)	bool
↳ maxScale	-1	int
↳ rowCount	0	int
↳ m_dataldx	0	unsigned int
↳ m_bSkipNextBloc	false	bool
↳ onErrorRuleEn	Log (0)	OnErrorRuleEn
↳ bPrintUserAssign	true	bool
↳ varHelperPtr	0x213b8a60 (rowCount="" dateFirstEn=CaiConvWeekday_Monday (1) variableList=(size=2 ...) ...)	DdlGenVarHelper *
↳ inDateTimeStyleEn	DateStyle_MmmDyy12 (0)	DATE_STYLE_ENUM
↳ outDateTimeStyleEn	DateStyle_MmmDyy12 (0)	DATE_STYLE_ENUM
↳ parentScriptTagNat	TagSql_Body (1)	DDL_TAG_NAT_ENUM
↳ context	0x09472060 (currLineStr="#SPROC_END init_exd_position_by_domain " currLineStrTrim="#SPRO...")	DdlGenFromFileContext *
↳ _vptr	0x02712754 (aaa_ddlgen.debug.exe!void(* DdlGenFromFileContext::vtitable[2])() (0x00f0d9668 (aa...))	void * ^
↳ currLineStr	"#SPROC_END init_exd_position_by_domain "	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
↳ currLineStrTrim	"#SPROC_END init_exd_position_by_domain "	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
↳ currBlockVector	(size=645)	std::vector<std::basic_string<char, std::char_traits<char>, std::allocator<char> > >
↳ blnItCurrLineI	true	bool
↳ bUpdateLineIndent	true	bool
↳ currLineI	""	std::vector<std::basic_string<char, std::char_traits<char>, std::allocator<char> > >
↳ lineNb	645	int
↳ blockLineBeginNb	24956	int
↳ currTagNat	TagSql_SProcEnd (4)	DDL_TAG_NAT_ENUM
↳ currTag	"SPROC_END"	std::basic_string<char, std::char_traits<char>, std::allocator<char> >
↳ currDdlGen	0x00000000 <NULL>	DdlGen *
↳ parentTagNat	TagSql_Body (1)	DDL_TAG_NAT_ENUM
↳ outDdlGenPtr	0x2502dd68 (extraParamList=[size=32] m_bFromPscFile=true m_bCustomBody=true ...)	DdlGen * (DdlGenSProc)
↳ [DdlGenSProc]	[extraParamList=[size=32] m_bFromPscFile=true m_bCustomBody=true ...]	DdlGenSProc
↳ DdlGenDbi	(bNestedRequest=false bUnion=false bLocalVarHelper=false ...)	DdlGenDbi
↳ scriptDdlGen	0x2397fe8 (bPrintRowCount=true bServerOutput=true bAutoCommit=true ...)	DdlGenFromFile *
↳ ddlGenStream	0x210e1740 "\ndeclare\nn/to_ext number(1)\nbegin\nnselect case\nnwhen exists (select '1' from ...)	std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >
↳ headerStream	0x25061c10 "create or replace procedure INIT_EXD_POSITION_BY_DOMAIN (\n\tlp_dim_port_dict_L...	std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >
↳ mainFromStream	0x00000000 ""	std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >
↳ m_fromStream	0x00000000 ""	std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >
↳ whereStream	0x00000000 ""	std::basic_stringstream<char, std::char_traits<char>, std::allocator<char> >

ddlgenfromfile.cpp: Different stored procedure status

```

string msgDone("Done");

if (this->ddlGenContextPtr->m_bHasUnknownCall)
{
    msgDone += "***";
}
else if (ret == RET_GEN_INFO_NODATA)
{
    msgDone += "***";
}
else if (this->ddlGenContextPtr->bWarning)
{
    msgDone += "*";
}
this->printMsg(RET_SRV_INFO_DONE, msgDone);
}

```

Oracle - Initial Connect Objects Getting loaded

01 November 2024 13:06


```

but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
93   10 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
=> 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
92   10 select parameter,value from nls_session_parameters union all SELECT 'DB_TIMEZONE' name, DBTIMEZONE value FROM DUAL union all SELECT
'SESSION_TIMEZONE' name, SESSIONTIMEZONE value FROM DUAL union all SELECT 'SESSION_TIMEZONE_OFFSET' name,
TZ_OFFSET(SESSIONTIMEZONE) value from DUAL union all SELECT parameter, value FROM nls_database_parameters WHERE
parameter='NLS_CHARACTERSET' null
91   10 alter session set NLS_CURRENCY='₹' null
90   10 alter session set NLS_TIMESTAMP_TZ_FORMAT='DD-MM-RR fmHH12:fmMI:SSXFF AM TZR' null
89   12 alter session set NLS_TIMESTAMP_FORMAT='DD-MM-RR fmHH12:fmMI:SSXFF AM' null
88   18 alter session set NLS_DATE_LANGUAGE='ENGLISH' null
87   20 alter session set NLS_LANGUAGE='ENGLISH' null
86   12 select parameter,value from nls_session_parameters union all SELECT 'DB_TIMEZONE' name, DBTIMEZONE value FROM DUAL union all SELECT
'SESSION_TIMEZONE' name, SESSIONTIMEZONE value FROM DUAL union all SELECT 'SESSION_TIMEZONE_OFFSET' name,
TZ_OFFSET(SESSIONTIMEZONE) value from DUAL union all SELECT parameter, value FROM nls_database_parameters WHERE
parameter='NLS_CHARACTERSET' null
85   28 select count(1) from all_objects where object_name = ? 1
                                              ="APEX_RELEASE"
                                              ="ASE"
84   10 alter session set PLSQL_OPTIMIZE_LEVEL=2 null
83   12 select sys_context('USERENV','SID') from dual null
82   11 select sys_context('USERENV','SESSIONID') from dual null
81   10 alter session set PLSCOPE_SETTINGS='identifiers:all' null
80   20 select USER from dual null
79   10 select * from v$option o, database_compatible_level v where o.parameter = 'OLAP' and o.value = 'TRUE' and v.value like '12%' or v.value like
'18%' or v.value like '19%' or v.value like '2%' null
78   20 select username from user_role_privs where username = (select user from dual) and granted_role in ('DBA','PDB_DBAs') null
77   10 select username from user_role_privs where username = (select user from dual) and granted_role in ('DBA','PDB_DBAs') null
76   19 select object_name from all_objects where object_name='SDO_RDF_TRIPLE_S' and owner='MDSYS' and object_type='TYPE' null
75   10 select username from user_role_privs where username = (select user from dual) and granted_role in ('DBA','PDB_DBAs') null
74   10 select con_id from (select sys_context('userenv','con_id') as con_id from dual) where con_id > 0 null
73   28 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
=> 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
72   21 select value from database_compatible_level v where v.value like '12.2%' or v.value like '18%' or v.value like '19%' or v.value like '2%' null
71   10 select dg_count from (select count(*) as dg_count from V$DG_BROKER_CONFIG) where dg_count > 0 null
70   20 select con_id from (select sys_context('userenv','con_id') as con_id from dual) where con_id > 1 null
69   10 select object_name from all_objects where object_name='RDF_MODEL$' and owner='MDSYS' and object_type='VIEW' null
68   12 select tab_count from (select count(*) tab_count from all_tables where owner = 'GSMADMIN_INTERNAL' and table_name = 'CLOUD') where
tab_count > 0 and exists (select null from GSMADMIN_INTERNAL.cloud) null
67   10 select banner from v$version where banner like '%Express Edition%' null
66   21 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
begin DBMS_UTILITY.NAME_RESOLVE ( name => :obj_name, context => 1, -- interested in PL/SQL schema => l_schema, part1 => l_part1, part2
=> l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); end;
65   62 select service_id from (select sys_context('USERENV', 'CLOUD_SERVICE') as service_id from dual) where service_id in ('DWCS','OLTP') null
64   20 select user_id from user_users where all_shard = 'YES' null
63   23 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
=> 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
62   150 select inst_count from (select count(*) inst_count from gv$database) where inst_count > 1 null
61   20 select con_id from (select sys_context('userenv','con_id') as con_id from dual) where con_id = 1 null
60   10 select * from v$version where banner like '%Oracle%' null

```

```

59      48   SELECT dbms_transaction.local_transaction_id FROM dual
58      18   SELECT 1 FROM dual
57     22   declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
56      16   v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
55      15   => 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
54      15   exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
53     22   but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
52     16   => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
51     15   declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
50     16   v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
49     22   => 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
48     16   exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
47     16   but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
46     16   => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
        
```



```

exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end;
33   16 select parameter,value from nls_session_parameters union all SELECT 'DB_TIMEZONE' name, DBTIMEZONE value FROM DUAL union all SELECT
'SESSION_TIMEZONE' name, SESSIONTIMEZONE value FROM DUAL union all SELECT 'SESSION_TIMEZONE_OFFSET' name,
TZ_OFFSET(SESSIONTIMEZONE) value from DUAL union all SELECT parameter,value FROM nls_database_parameters WHERE
parameter='NLS_CHARACTERSET' null
32   0 alter session set NLS_CURRENCY='₹' null
31   0 alter session set NLS_TIMESTAMP_TZ_FORMAT='DD-MM-RR fmHH12:fmMI:SSXF AM TZR' null
30   16 alter session set NLS_TIMESTAMP_FORMAT='DD-MM-RR fmHH12:fmMI:SSXF AM' null
29   31 alter session set NLS_DATE_LANGUAGE='ENGLISH' null
28   22 alter session set NLS_LANGUAGE='ENGLISH' null
27   22 select parameter,value from nls_session_parameters union all SELECT 'DB_TIMEZONE' name, DBTIMEZONE value FROM DUAL union all SELECT
'SESSION_TIMEZONE' name, SESSIONTIMEZONE value FROM DUAL union all SELECT 'SESSION_TIMEZONE_OFFSET' name,
TZ_OFFSET(SESSIONTIMEZONE) value from DUAL union all SELECT parameter,value FROM nls_database_parameters WHERE
parameter='NLS_CHARACTERSET' null
26   69 select count(1) from all_objects where object_name = ? 1
                                                 ="APEX_RELEASE"
                                                 ASE"
25   15 alter session set PLSQL_OPTIMIZE_LEVEL=2 null
24   16 select sys_context('USERENV','SID') from dual null
23   15 select sys_context('USERENV','SESSIONID') from dual null
22   0 alter session set PLSCOPE_SETTINGS='identifiers:all' null
21   16 select USER from dual null
20   31 select * from v$option o, database_compatible_level v where o.parameter = 'OLAP' and o.value = 'TRUE' and v.value like '12%' or v.value like
'18%' or v.value like '19%' or v.value like '2%' null
19   38 select username from user_role_privs where username = (select user from dual) and granted_role in ('DBA','PDB_DBAA') null
18   46 select username from user_role_privs where username = (select user from dual) and granted_role in ('DBA','PDB_DBAA') null
17   69 select object_name from all_objects where object_name='SDO_RDF_TRIPLE_S' and owner='MDSYS' and object_type='TYPE' null
16   47 select username from user_role_privs where username = (select user from dual) and granted_role in ('DBA','PDB_DBAA') null
15   0 select con_id from (select sys_context('userenv','con_id') as con_id from dual) where con_id > 0 null
14   32 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
=> 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end; "obj_name"=
"ords"
13   22 select value from database_compatible_level v where v.value like '12.2%' or v.value like '18%' or v.value like '19%' or v.value like '2%' null
12   31 select dg_count from (select count(*) as dg_count from V$DG_BROKER_CONFIG) where dg_count > 0 null
11   16 select con_id from (select sys_context('userenv','con_id') as con_id from dual) where con_id > 1 null
10   84 select object_name from all_objects where object_name='RDF_MODEL$' and owner='MDSYS' and object_type='VIEW' null
9    57 select tab_count from (select count(*) tab_count from all_tables where owner = 'GSMADMIN_INTERNAL' and table_name = 'CLOUD') where
tab_count > 0 and exists (select null from GSMADMIN_INTERNAL.cloud) null
8    18 select banner from v$version where banner like '%Express Edition%' null
7    31 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
begin DBMS_UTILITY.NAME_RESOLVE ( name => :obj_name, context => 1, -- interested in PL/SQL schema => l_schema, part1 => l_part1, part2
=> l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); end; "obj_name"=
"DBMS_CLOUD"
6    30 select service_id from (select sys_context('USERENV', 'CLOUD_SERVICE') as service_id from dual) where service_id in ('DWCS','OLTP') null
5    41 select user_id from user_users where all_shard = 'YES' null
4    52 declare l_schema varchar2(128); l_part1 varchar2(128); l_part2 varchar2(128); l_dblink varchar2(128); l_part1_type number; l_objid number;
v_name varchar2(128); begin v_name := :obj_name; -- first check for a table/view DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context
=> 0, schema => l_schema, part1 => l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid );
exception when others then if sqlcode = -4047 then -- an ora-4047 means the object wasn't the correct type -- it's probably safe to say it exists,
but just to be -- sure, resolve the name as pl/sql DBMS_UTILITY.NAME_RESOLVE ( name => v_name, context => 1, schema => l_schema, part1
=> l_part1, part2 => l_part2, dblink => l_dblink, part1_type => l_part1_type, object_number => l_objid ); else raise; end if; end; "obj_name"=
"user_ords_repopversions"
3   135 select inst_count from (select count(*) inst_count from gv$database) where inst_count > 1 null
2    16 select con_id from (select sys_context('userenv','con_id') as con_id from dual) where con_id = 1 null
1   100 select * from v$version where banner like '%Oracle%' null

```

Switching GUI from Master to BE

15 October 2024 19:57

AAAGUI=W:\TA\29.5.XX\triplea_core\arch\win\VS170\BIT32\bin\Debug\gui.debug.exe

aaa_gui Property Pages

Configuration: Active(Debug) Platform: Active(Win32) Config

Debugger to launch:
Local Windows Debugger

Command	
Command Arguments	-CINT_E2E_NMS -Uhla1 -PRadvani11 -cMASTER
Working Directory	\$(ProjectDir)
Attach	No
Debugger Type	Auto
Environment	AAAGUI=W:\TA\29.5.XX\triplea_core\arch\win\VS170\BIT32\bin\Debug\gui.debug.exe\$(LocalDebuggerEnvironment)
Merge Environment	Yes
SQL Debugging	No
Amp Default Accelerator	WARP software accelerator

Configuration Properties

- General
- Advanced
- Debugging**
- VC++ Directories
- ▷ C/C++
- ▷ Linker
- ▷ Manifest Tool
- ▷ Resources
- ▷ XML Document Generator
- ▷ Browse Information
- ▷ Build Events
- ▷ Custom Build Step
- ▷ Custom Build Tool
- ▷ Code Analysis

Fusion does not work - ORA-00001: unique constraint

24 September 2024 16:56

```
val@lauulpar04:/oams/v_ora_23_6/aaa/current/ddl/bin$ synchronize_ext_order_id.sh v_ora_23_6aaa v_ora_23_6aaav_ora_23_6aaa
```

From <<http://rd.temenosgroup.com/browse/PMSTA-29925>>

Buildpath for ta_loader in bitbucket

24 September 2024 12:15

[Browse Temenos Wealth Suite Internal / common - Bitbucket PROD](#)

Tracing crash to source from dmesg file

17 September 2024 11:47

```
[395842.215692] audit: type=1327 audit(1725671416.795:5546260): proctitle=2F62696E2F6B7368002F6F616D732F696E745F6532655F6D61696E742F47575041434B2F67777061636B2F736372697074732F47575041434B5F52656379636C696E672E7368004441454D4F4E  
[589244.109296] HttpConnectionH[1312299]: segfault at 0 ip 000000000088b7fb sp 00007f510bfeef0 error 4 in aaa_srv64[400000+1748000]  
[589244.109309] Code: e8 ca 62 5e 00 83 bc 24 f0 00 00 00 02 0f 85 a4 f3 ff 48 8d 05 91 d2 f1 01 48 8b 8c 24 90 01 00 00 48 8b 5c 24 10 48 63 00 <f2> Of 10 01 48 c1 e0 04 48 01 d8 80 08 11 f2 Of 11 40 08 48 8d 05  
[677361.548150] HttpConnectionH[3176623]: segfault at 0 ip 000000000088b7fb sp 00007fd617feef0 error 4 in aaa_srv64[400000+1748000]  
[677361.548162] Code: e8 ca 62 5e 00 83 bc 24 f0 00 00 00 02 0f 85 a4 f3 ff 48 8d 05 91 d2 f1 01 48 8b 8c 24 90 01 00 00 48 8b 5c 24 10 48 63 00 <f2> Of 10 01 48 c1 e0 04 48 01 d8 80 08 11 f2 Of 11 40 08 48 8d 05  
[677366.547492] audit: type=1302 audit(1725952941.114:10288777): item=0 name=(null) inode=73838461 dev=00:09 mode=0140777 ouid=1006 ogid=1006 rdev=00:00 nametype=NORMAL cap_fp=0 cap_fi=0 cap_fe=0 cap_frootid=0  
  
[395842.215692] audit: type=1327 audit(1725671416.795:5546260): proctitle=2F62696E2F6B7368002F6F616D732F696E745F6532655F6D61696E742F47575041434B2F67777061636B2F736372697074732F47575041434B5F52656379636C696E672E7368004441454D4F4E  
[589244.109296] HttpConnectionH[1312299]: segfault at 0 ip 000000000088b7fb sp 00007f510bfeef0 error 4 in aaa_srv64[400000+1748000]  
[589244.109309] Code: e8 ca 62 5e 00 83 bc 24 f0 00 00 00 02 0f 85 a4 f3 ff 48 8d 05 91 d2 f1 01 48 8b 8c 24 90 01 00 00 48 8b 5c 24 10 48 63 00 <f2> Of 10 01 48 c1 e0 04 48 01 d8 80 08 11 f2 Of 11 40 08 48 8d 05  
[677361.548150] HttpConnectionH[3176623]: segfault at 0 ip 000000000088b7fb sp 00007fd617feef0 error 4 in aaa_srv64[400000+1748000]  
[677361.548162] Code: e8 ca 62 5e 00 83 bc 24 f0 00 00 00 02 0f 85 a4 f3 ff 48 8d 05 91 d2 f1 01 48 8b 8c 24 90 01 00 00 48 8b 5c 24 10 48 63 00 <f2> Of 10 01 48 c1 e0 04 48 01 d8 80 08 11 f2 Of 11 40 08 48 8d 05  
  
[677533.191869] show_signal: 184 callbacks suppressed  
[677533.191873] traps: HttpConnectionH[3206196] general protection fault ip:11d3e11 sp:7fe88fffee930 error:0 in aaa_srv64[400000+1748000]  
  
[677716.039904] show_signal_msg: 85 callbacks suppressed  
[677716.039906] HttpConnectionH[3213572]: segfault at 0 ip 00000000011d3e11 sp 00007fd783fed930 error 4 in aaa_srv64[400000+1748000]  
[677716.039918] Code: 00 48 8d 05 95 67 5d 01 4c 89 c6 4c 89 f7 0f bf 10 e8 e3 e0 ff ff e9 07 ff ff 66 0f 1f 44 00 00 49 c1 e4 04 4f 8b 64 25 08 <41> 80 3c 24 00 0f 85 b0 04 00 00 80 23 fc 45 31 c0 c7 43 10 00 00  
[685501.890325] HttpConnectionH[3402017]: segfault at 0 ip 0000000016268ef sp 00007fcacbfeee30 error 4 in aaa_srv64[400000+1748000]  
[685501.890337] Code: 96 48 8d 3d 33 ac 27 00 e8 8e b7 08 ff 0f 1f 40 00 66 2e 0f 1f 84 00 00 00 00 41 54 49 89 fc 53 48 83 ec 08 48 39 f7 74 41 <48> 8b 3f 48 89 f3 e8 96 b9 08 ff 48 8b 3b 31 c0 48 85 ff 74 0d e8  
  
=====  
mbe2e@bngtapi8.temenosgroup.com:/oams/int_e2e_eurcpy/aaa/current/bin/Linux> addr2line -e aaa_srv64 00000000011d3e11  
/users/product/kritesh/TA/TA_29.5.XX/triplea_core/src/scplib3.c:4134 (discriminator 2)  
mbe2e@bngtapi8.temenosgroup.com:/oams/int_e2e_eurcpy/aaa/current/bin/Linux>
```

Addr2line utility takes instruction pointer as input and finds the source where it currently points to.

```
=====  
segfault at 10 ip 00007f9bebcca90d sp 00007ffffb622705f0 error 4 in libQtWebKit.so.4.5.2[7f9beb83a000+f6f000]  
segfault at 10 ip 00007fa44d78890d sp 00007fff43f6b720 error 4 in libQtWebKit.so.4.5.2[7fa44d2f8000+f6f000]  
segfault at 11 ip 00007f2b0022acee sp 00007fff368ea610 error 4 in libQtWebKit.so.4.5.2[7f2aff9f7000+f6f000]  
segfault at 11 ip 00007f24b21adcee sp 00007fff7379ded0 error 4 in libQtWebKit.so.4.5.2[7f24b197a000+f6f000]
```

From <<https://stackoverflow.com/questions/2549214/interpreting-segfault-messages>>

Now then, "ip **00007f9bebcca90d**" means the instruction pointer was at **0x00007f9bebcca90d** when the segfault happened.

"libQtWebKit.so.4.5.2[**7f9beb83a000**+f6f000]" tells you:

- The object the crash was in: "libQtWebKit.so.4.5.2"
- The base address of that object "**7f9beb83a000**"
- How big that object is: "f6f000"

If you take the base address and subtract it from the ip, you get the offset into that object:

0x00007f9bebcca90d- 0x7f9beb83a000= 0x49090D??

Then you can run addr2line on it:

addr2line -e /usr/lib64/qt45/lib/libQtWebKit.so.4.5.2-fCi 0x49090D??

??:0

From <<https://stackoverflow.com/questions/2549214/interpreting-segfault-messages>>

symbol lookup error: /usr/lib64/libk5crypto.so.3: undefined symbol: EVP_KDF_ctrl

13 September 2024 10:01

```
/oams/v_syb_mb1/aaa/current/bin/Linux->./aaa_srv64 -v  
./aaa_srv64: symbol lookup error: /usr/lib64/libk5crypto.so.3: undefined symbol: EVP_KDF_ctrl, version OPENSSL_1_1_1b
```

Resolution:

\$AAAHOME/lib64/Linux

- a. Move *cry* to new folder, unlink any crypto libraries if linked (mv libcrypto.so.1.1 libcrypto.a/sslcry/)
- b. unlink libssl.so

```
=====  
[root@kerberos ~]# objdump -TC /usr/lib64/libcrypto.so.1.1 | grep EVP_KDF  
0000000000176080 g  DF .text    00000000000000f0  OPENSSL_1_1_1b EVP_KDF_ctrl  
0000000000176170 g  DF .text    000000000000008e  OPENSSL_1_1_1b EVP_KDF_ctrl_str  
000000000000176020 g  DF .text    0000000000000021  OPENSSL_1_1_1b EVP_KDF_reset  
000000000000176200 g  DF .text    0000000000000030  OPENSSL_1_1_1b EVP_KDF_size  
000000000000176050 g  DF .text    0000000000000023  OPENSSL_1_1_1b EVP_KDF_vctrl  
000000000000175f00 g  DF .text    000000000000011d  OPENSSL_1_1_1b EVP_KDF_CTX_new_id  
000000000000175ec0 g  DF .text    0000000000000031  OPENSSL_1_1_1b EVP_KDF_CTX_free  
000000000000176230 g  DF .text    0000000000000023  OPENSSL_1_1_1b EVP_KDF_derive  
[root@kerberos ~]#  
On f32 (nvr openssl-libs-1.1.1g-1.fc32.x86_64):  
[root@kerberos vagrant]# objdump -TC /usr/lib64/libcrypto.so.1.1 | grep EVP_KDF  
0000000000176000 g  DF .text    00000000000000f0  OPENSSL_1_1_1b EVP_KDF_ctrl  
0000000000001760f0 g  DF .text    000000000000008e  OPENSSL_1_1_1b EVP_KDF_ctrl_str  
000000000000175fa0 g  DF .text    0000000000000021  OPENSSL_1_1_1b EVP_KDF_reset  
000000000000176180 g  DF .text    0000000000000030  OPENSSL_1_1_1b EVP_KDF_size  
000000000000175fd0 g  DF .text    0000000000000023  OPENSSL_1_1_1b EVP_KDF_vctrl  
000000000000175e80 g  DF .text    000000000000011d  OPENSSL_1_1_1b EVP_KDF_CTX_new_id  
000000000000175e40 g  DF .text    0000000000000031  OPENSSL_1_1_1b EVP_KDF_CTX_free  
0000000000001761b0 g  DF .text    0000000000000023  OPENSSL_1_1_1b EVP_KDF_derive  
[root@kerberos vagrant]#
```

From <https://bugzilla.redhat.com/show_bug.cgi?id=1829790>

```
[~]$ objdump -TC /usr/lib/libcrypto.so.1.1 | grep EVP_KDF  
0012b990 g  DF .text  00000065  OPENSSL_1_1_1b EVP_KDF_ctrl  
0012ba00 g  DF .text  000000aa  OPENSSL_1_1_1b EVP_KDF_ctrl_str  
0012b930 g  DF .text  00000021  OPENSSL_1_1_1b EVP_KDF_reset  
0012bab0 g  DF .text  0000002e  OPENSSL_1_1_1b EVP_KDF_size  
0012b960 g  DF .text  00000023  OPENSSL_1_1_1b EVP_KDF_vctrl  
0012b830 g  DF .text  000000fe  OPENSSL_1_1_1b EVP_KDF_CTX_new_id  
0012b7e0 g  DF .text  00000044  OPENSSL_1_1_1b EVP_KDF_CTX_free  
0012bae0 g  DF .text  00000023  OPENSSL_1_1_1b EVP_KDF_derive  
[~]$ objdump -TC /usr/lib64/libcrypto.so.1.1 | grep EVP_KDF  
0000000000176000 g  DF .text  00000000000000f0  OPENSSL_1_1_1b EVP_KDF_ctrl  
00000000001760f0 g  DF .text  000000000000008e  OPENSSL_1_1_1b EVP_KDF_ctrl_str  
000000000000175fa0 g  DF .text  0000000000000021  OPENSSL_1_1_1b EVP_KDF_reset  
000000000000176180 g  DF .text  0000000000000030  OPENSSL_1_1_1b EVP_KDF_size  
000000000000175fd0 g  DF .text  0000000000000023  OPENSSL_1_1_1b EVP_KDF_vctrl  
000000000000175e80 g  DF .text  000000000000011d  OPENSSL_1_1_1b EVP_KDF_CTX_new_id  
000000000000175e40 g  DF .text  0000000000000031  OPENSSL_1_1_1b EVP_KDF_CTX_free  
0000000000001761b0 g  DF .text  0000000000000023  OPENSSL_1_1_1b EVP_KDF_derive
```

From <https://bugzilla.redhat.com/show_bug.cgi?id=1829790>

Both products (Matlab & Scilab) **contains their own shared library libcrypto.so.1.1, but uses system library libk5crypto.so.3.** **System library libk5crypto.so.3 uses new symbols, which system library libcrypto.so.1.1 has, but Matlab's library libcrypto.so.1.1 hasn't.** So I deleted libcrypto.so.1.1 from Matlab directory and it works now (same as scilab).

From <https://bugzilla.redhat.com/show_bug.cgi?id=1829790>

RPC get_entity parameters and execution

Tuesday, May 31, 2022 10:25 PM

Description

This RPC is used to load a given set of attributes for an entity based on its pk or bk.

Input parameters

	Param name	Syntax	Example	Remarks
1	entity_sqname_c	"[entity sql name]"	"portfolio"	Entity SQL name
2	param_t	" <<bk pk>> := [<<value>>] ; <<known attribute1>> ; <<known attribute1>>. <<bk>> ;..."	" code := My_PTF_CODE ; name "	Parameters of the entity All attributes asks with a fk (<<fk>>,<<attribute>>) must be contained in the short structure (short_index_n not NULL in the meta-dictionary). The code and the denom come always from the internal structure. If we need the user codification, we can use the keyword SYNONYM, and DENOM from the denomination the context language.
3	output_type_e	1 2	1	Output with optional blocks 0. Entity only (default) 1. Entity with filters (authorized values)
4	option_e	[1 2 3]	0	0. Only known attributes without name 1. Only known attributes with name 2. All
5	screen_dict_id	[screen id]	43254432	Optional screen id
6	user_id			Optional user id, if not set, use the user who have the connection
7	data_profile_id			Optional data profile, if not set, use the user one
8	language_dict_id			Optional language, if not set, use the user one
9	fonction_dict_id			Optional financial function
10	codifications_c		currency := ISO ;	Optional codifications, if not set, use the user one. The syntax is <<entity>> := <<codif>> ;
11	test_converter_e			Optional text converter

Output blocks

Block 1

Result set item	Description	Example
1		
2	All parameters filled returned in the same order as the input	T_AI_AC_PTF2 ; N_AI_AC_PTF2....end ;

Block 2

Result set item	Description	Example
1	Attribute	currency_id
2	rank (string cut each 2000 characters)	0
3	Filters with the format: " <<fk attribute>> ", "" <<result>> ;..." The primary key and the business key are always returns.	200003 ; =AS ; =AS ; EURO (ATS) ;

Block 3

Result set item	Description	Example
1	Attribute	currency_id.denom
2	nature : 1: Warning 2: Error	1
3	rank (string cut each 2000 characters)	0
4	Errors messages: "<<attribute>> , <<rank>> , <<message nature>> , <<Message>> "	Not a valid attribute (the attribute must be in the short structure)

Examples

- |T_AI_AC_PTF2|;|N_AI_AC_PTF2....end|;
- Get the portfolio name of portfolio with code T_AI_AC_PTF2
get_entity "portfolio", "|code|:=|T_AI_AC_PTF2|;|name|"
- Get the portfolio name of portfolio with code T_AI_AC_PTF2 with the currency in the codification ISO and with filter.
get_entity "portfolio", "|code|:=|T_AI_AC_PTF2|;|currency_id|;|currency_id.code|;|currency_id.SYNONYM|;|currency_id.name|;", 1, 0, NULL, 200007, NULL, NULL, NULL, "|currency|:=|ISO|;"

1. Get the synonym of the entity
get_entity "dict_language", "|code|:=|de|;|SYNONYM|;|denom|;|dict_id|:=|3|;|name|;" ,
-->
|code|:=|de|;|SYNONYM|:=|DE| ;|denom|:=|Deutsch|;|dict_id|:=| 3| ;|name|:=|German|;

From <http://wikiorg.temenosgroup.com/display/DEVWIKI/get_entity>

Export and Import Examples

Tuesday, May 31, 2022 10:39 PM

EXPORT

```
Syntax: aaa expfmt 4 <database> -U <username> -P <password> <format_name> iso_1_from_utf8 <path_where_to_export>

aaa expfmt 4 d_mst Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa VMU_DS_VALO iso_1_from_utf8 /tmp/vmu1
aaa expscr_d_mst_baaaaa_d_mst_baaaaad_mst_ba_aamaaindb SYS_% iso_1_from_utf8
aaa exp_format_prof /oams/d_mst_Ba/aaa/current/tmp d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% 
aaa exprnsg_d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa iso_1_from_utf8
aaa exp_screen_prof /oams/d_mst_Ba/aaa/current/tmp d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% 
aaa exp_func_secu_prof /oams/d_mst_Ba/aaa/current/tmp d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% 
aaa exp_search_prof /oams/d_mst_Ba/aaa/current/tmp d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% full
aaa expobj_list d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% currency
aaa expobj_classif.sh d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% currency
aaa EXPOBJ_Ud_mst_baaaaa-Pd_mst_baaaaad_mst_baaaaa-M d_mst_Ba_aamaaindb -e case_msg_template -o SYS_% -f SYS_case_msg_template.imp -d /oams/d_mst_Ba/aaa/current/tmp
aaa exp_constraint_template d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% 
aaa export dict_function d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% 
aaa export_appl_param d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% iso_1_from_utf8
aaa export type d_mst_Ba_aamaaindb_d_mst_baaaaa_d_mst_baaaaad_mst_baaaaa SYS_% iso_1_from_utf8
aaa EXPOBJ_Ud_mst_baaaaa-Pd_mst_baaaaad_mst_baaaaa-M d_mst_Ba_aamaaindb -e data_dependency -o SYS_% -f SYS_data_dependency.imp -d /oams/d_mst_Ba/aaa/current/tmp
aaa EXPOBJ_Ud_mst_baaaaa-Pd_mst_baaaaad_mst_baaaaa-M d_mst_Ba_aamaaindb -e data_secu_prof -o SYS_% -f SYS_data_secu_prof.imp -d /oams/d_mst_Ba/aaa/current/tmp
export_scredf_sh laurus56a.oams.com START with parameters->format -w /oams/d_mst_Ba/aaa/current/tmp/d_oams/d_mst_Ba/aaa/current/tmp/f_row_format.5832728.tmp -o SYS_% -Ud_mst_baaaaa
Pd_mst_baaaaad_mst_baaaaa -M d_mst_Ba_aamaaindb -s -
aaa EXPOBJ_Ud_mst_baaaaa-Pd_mst_baaaaad_mst_baaaaa-M d_mst_Ba_aamaaindb -e val_rule -o SYS_% -f SYS_valuation_rule.imp -d /oams/d_mst_Ba/aaa/current/tmp
aaa EXPOBJ_Ud_mst_baaaaa-Pd_mst_baaaaad_mst_baaaaa-M d_mst_Ba_aamaaindb -e subscription -o SYS_% -f SYS_subscription.imp -d /oams/d_mst_Ba/aaa/current/tmp
aaa EXPOBJ_Ud_mst_baaaaa-Pd_mst_baaaaad_mst_baaaaa-M d_mst_Ba_aamaaindb -e data_profile -o SYS_% -f SYS_data_profile.imp -d /oams/d_mst_Ba/aaa/current/tmp
aaa EXPORT_Uaaaa_Paaaaaa_einstrument -o 0800022-098 "cUS0010001"
```

IMPORT

Syntax: aaa imp -U <username> -P <password> -L ISO8859-1 -K ISO8859-1 <>path_of_file to import>

If running "aaa imp" without parameters, you will get the following error because at least username/password should be provided.

```
aaa imp
AAA AHAMEE is /oams/d_mst_ba/aaa/current
MSG Executing /oams/d_mst_ba/aaa/current/bin/AIX/aaa_imp
import: initialization error (see log file: "/oams/d_mst_ba/aaa/current/msg/log")
aaa-imp-Ud_tap_6spaaPa_Pd_tap_6spaaPa_tap_6spaaPa_IS0859-1_K-IS0859-1_PCK_DRSM_drc
aaa-imp-Ud_tap_6spaaPa_Pd_tap_6spaaPa_tap_6spaaPa_IS0859-1_K-IS0859-1_PCK_DRSM_drc
```

From <<http://wikilng.temenosgroup.com/display/DEVWIKI/KR+-+Import+and+Export>>

The below examples are old commands. To take the latest commands, use the `D | X2_QBA`

The below examples are old commands. To take the latest commands, use the [D_EAE_ORA_FA](#).

https://laulxcmt.temenosgroup.com/job/env.D_LX2_ORA_BA.ta_pck_extract/85/console

```
/tap/CIP_LX_VM/aaahome->./aaa_export -U aaa -P aaaaaaa -e format -o S
```

```
AAAHOME = /tap/CIP_LX_VM/aaahome  
Executing /tap/CIP_LX_VM/aaahome/bin/Linux/aaa_export.s  
  
Exporting Entity : format ...  
Output file is /tap/CIP_LX_VM/aaahome/tmp/SYS_format.im  
/tap/CIP_LX_VM/aaahome>vi /tap/CIP_LX_VM/aaahome/tmp/SYS_format.im
```

```
Content of /tap/CIP_LX_VM/aaahome/tmp/SYS_format.imp:  
REM Export Item: entity=format sub_entity=NULL parent_entity=NULL pattern='SYS_%' business_entity=NULL nature_script=NULL attribute=NULL action=NULL  
SET DECIMAL ,  
SET DATAFORMAT DELIMITED  
SET SEPARATOR ','  
SET QUOTE NONE  
SET DATEFORMAT DD-MM-YYYY HH:TT:SS
```

SET PREFIX DATA NONE

All other pck extracts/experts, please follow the details within the link:

Console Output

View as plain text

View Build Information

Parameters

Embeddable Build Status

Previous Build

Executed Ant Targets

- ta_pck_extract
- ta_pck_extract
- loop_on_datasets
- check_versions
- extract_dataset
- check_versions
- extract_dataset_new
- export_entity_new
- init
- exportgeneric

```
17:50:43 Running as SYSTEM
17:50:43 Building remotely on D_LX2_ORA_BA in workspace /oams/jenkins_slaves/env/D_LX2_ORA_BA/workspace/env.D_LX2_ORA_BA.ta_pck_extract
17:50:44 [targets_list] $ /usr/bin/ant -file ta_pck_extract.xml
Denprop_ta_pattern_list=SYS_PCK_CS_PCK_IO_PCK_MT_PCK_PR_PCK_RS_PCK_SU_PCK_UD_PCK_UF_PCK_DS_PCK_PREF_DS REP_PCK_BMT_PCK_AD_PCK_IP_PCK_TCIB_PCK_GL_UT_DENO_
Denv_name=D_LX2_ORA_BA -lib /oams/jenkins/jobs/cmt_00_env_jobs_full_refresh/workspace/lib
17:50:44 Buildfile: /oams/jenkins/jobs/cmt_00_env_jobs_full_refresh/workspace/targets/list/ta_pck_extract.xml
17:50:44
17:50:44 ta_pck_extract:
17:50:44     [echo] Task name: ta_pck_extract
17:50:44 [echoproperties] #Ant properties
17:50:44 [echoproperties] #Fri Jan 21 16:50:44 CET 2022
17:50:44 [echoproperties] envprops_ENABLE_MULTI_TASC_LOGIN=0
17:50:44 [echoproperties] envprops_aaa_rdbms=ORACLE
17:50:44 [echoproperties] envprops_aaahome=/oams/D_LX2_ORA_BA/aaahome
17:50:44 [echoproperties] envprops_aaaologindb=aaaologindb
17:50:44 [echoproperties] envprops_aaamercator_home=/oams/D_LX2_ORA_BA/wstx/wstdx
17:50:44 [echoproperties]
envprops_active_jobssta_scriptdef_scpgrep_e9_install_from_scratch_b6_ta_data_check_info_ir_deploy_ir_deploy_encyclopedia_ocsp_bp1_occs_deploy_occs_import_occs_import_no_gcl_occs_info_occs_sanity_check,
occs_start_occs_stop_occs_wd_test_occs_webapp_deploy_ta_aaahome_ddl_refresh_ta_aaahome_finrstop_ta_aaahome_lock_ta_aaahome_refresh_ta_aaahome_unlock_ta_custo_deploy_ta_ddl_refresh_ta_ddl_ts1_ref
resists_distribution_deploy_ta_eny_backup_deploy_ta_eny_load_ta_finrrefresh_ta_gui_refresh_ta_install_from_scratch_ta_labels_compare_extracted_with_cms_ta_label1_extract_ta_labels_upload_in_c
m_ta_ta_pk_comparereacted_with_cms_ta_pck_extract_ta_pck_upload_in_cms_ta_scriptdef_compare_extracted_with_cms_ta_scriptdef_deploy_ta_scriptdef_extract_ta_scriptdef_upload_in_c
ms_ta_technreport_generate_irx_testdata_eval_entity_ta_tesdata_import_ta_tesdata_users_import_wsc_deploy_wsc_info_wsc_start_wsc_stop_ta_db_start_ta_db_stop_ta_license_set_ta_upgrade
17:50:44 [echoproperties] #Fri Jan 21 16:50:44 CET 2022
17:50:44 [echoproperties]
```

Screen Picked up for DV Calculation

07 November 2022 18:37

```
[2022/08/05 11:40:00:902495]      ORAStatementExecute - ct_command(aaamaindb,tasc,4,1,0)
SUCCEED   Connect=602      CsCmd=0x007f40e407dcd0 Mode=RPC   Thread=pid#20827-tid#21193
Request="begin sel_sh_scrn_prof_compo_by_spid (5 ,1600 ,NULL );end;" ...
(ThreadRequest:CIP_LX_ORA_JB3_S1-pid#20827-tid#21193)
[2022/08/05 11:40:00:904129]      ORAStatementExecute - ct_command(aaamaindb,tasc,4,1,0)
SUCCEED   Connect=603      CsCmd=0x007f411838c630 Mode=RPC   Thread=pid#20827-tid#21010
Request="begin sel_sh_scrn_prof_compo_by_spid (5 ,1606 ,NULL );end;" ...
(ThreadRequest:CIP_LX_ORA_JB3_S1-pid#20827-tid#21010)
0.066918 (ThreadTime:CIP_LX_ORA_JB3_S1-pid#20827-tid#21193)
```

Hierarchy Creation Pattern

Friday, August 13, 2021 2:46 PM

```
DBA_SetDoNotDeleteRecFlag(hierHead, ExtOp, TRUE);
DBA_AddHierRecordList(hierHead, collectInfoStp->recordTab, collectInfoStp->recordNbr, ExtOp, FALSE);
DBA_SetHierLnkUsed(hierHead, ExtOp, ExtOp_CompoundOrderMasterElt_Ext);
DBA_SetHierLnkUsed(hierHead, ExtOp, ExtOp_CompoundOrderSlaveElt_Ext);
DBA_MakeAllRecLinks(hierHead, ExtOp);
```

Gcc sources checkout using git

Sunday, August 22, 2021 2:40 PM

`git clone git://gcc.gnu.org/git/gcc.git .`

From <<https://gcc.gnu.org/git.html>>

Branches and Tags

A branch called *branchname* can be checked out with the following command:

`git checkout branchname`

(The release branch of the GCC *SERIES* release series is named `releases/gcc-SERIES`.)

Similarly a tag called *tagname* can be checked out with the following command:

`git checkout tagname`

(The Git tag for GCC *X.Y.Z* is of the form `releases/gcc-X.Y.Z`. Under the release numbering scheme used for GCC 5 and later release series, *Y* is always nonzero and *Z* is always zero for a release, with other version numbers being used for development versions.)

The following are some representative examples:

- `releases/gcc-10` (a branch)
- `releases/gcc-9` (a branch)
- `releases/gcc-9.3.0` (a tag)
- `releases/gcc-4.9` (a branch)
- `releases/gcc-4.9.0` (a tag)

To get a list of available branches, after checking out any branch, use the command:

`git branch -a`

Similarly, to list tags:

`git tag -l`

To view logs for a branch only up to the point at which it was created, use the command `git log origin/branchname ^origin/parentbranchname`; for example:

`git log origin/releases/gcc-9 ^origin/master`

From <<https://gcc.gnu.org/git.html>>

Local finserver and ocs debugging issues

Sunday, August 22, 2021 8:40 PM

```
[2021/08/22 12:38:02:262000] ORAStatementExecute - ct_command(aaamaindb,aaa,1,1,0) FAIL Connect=3 CsCmd= 23466738 Mode=LANG Thread=pid#23088-tid#22688 Request="/* generator_version: WealthSuite Front Office (Build : R27.5.0 2021-Aug-22 11:11:43 (WIN32 Debug) cfe2c5009) generation_date: 22/08/2021 12:38:02 ENABLE_ADDITIONAL_DSP=1 ENABLE_MULTI_TASC_LOGIN=1 */ create or replace view AAAMAINDB.X_00000000000683 as select E.seqno as seqno, E.data_secu_prof_id as data_secu_prof_id, E.data_secu_prof2_id as data_secu_prof2_id, E.id as id, E.portfolio_id as portfolio_id, E.only_used_for_order_f, E.PORTFOLIO_SELECT as PORTFOLIO_SELECT, E.PORTFOLIO_CODE as PORTFOLIO_CODE, E.PORTFOLIO_NAME as PORTFOLIO_NAME, E.PORTFOLIO_DENOM_en as PORTFOLIO_DENOM_en, E.PORTFOLIO_DENOM_fr as PORTFOLIO_DENOM_fr, E.PORTFOLIO_INVEST_SERVICE_de as PORTFOLIO_INVEST_SERVICE_de, E.PORTFOLIO_INVEST_SERVICE_en as PORTFOLIO_INVEST_SERVICE_en, E.PORTFOLIO_INVEST_SERVICE_fr as PORTFOLIO_INVEST_SERVICE_fr, E.PORTFOLIO_INVEST_SERVICE_de as PORTFOLIO_INVEST_SERVICE_de, E.PORTFOLIO_MANAGE_TYPE_en as PORTFOLIO_MANAGE_TYPE_en, E.PORTFOLIO_MANAGE_TYPE_fr as PORTFOLIO_MANAGE_TYPE_fr, E.PORTFOLIO_MANAGE_TYPE_de as PORTFOLIO_MANAGE_TYPE_de, E.PORTFOLIO_CURRENCY as PORTFOLIO_CURRENCY, E.default_invest_profile_id as default_invest_profile_id, E.default_strategy_id as default_strategy_id, E.DEFAULT_INVEST_PROFILE as DEFAULT_INVEST_PROFILE, E.forced_strategy_id as forced_strategy_id, E.third_id as third_id, E.portfolio_third_compo_id as portfolio_third_compo_id, E.HIERARCHY_HEAD as HIERARCHY_HEAD, E.PTF_HIER_STR_en as PTF_HIER_STR_en, E.PTF_HIER_STR_fr as PTF_HIER_STR_fr, E.PTF_HIER_STR_de as PTF_HIER_STR_de, E.THIRD_PARTY_OWNERSHIP_RULE as THIRD_PARTY_OWNERSHIP_RULE, E.THIRD_PARTY_PERCT_OWNERSHIP as THIRD_PARTY_PERCT_OWNERSHIP, E.THIRD_COMP_RULE as THIRD_COMP_RULE, E.third_compo_e as third_compo_e, E.third_compo_bis_e as third_compo_bis_e, E.VALIDITY_DATE as VALIDITY_DATE, E.END_DATE as END_DATE, E.CLIENT_NAME as CLIENT_NAME /* security_level_e = 0 */ from X_00000000000683 E" ... (ThreadRequest:AAASERVHLAL:pid#23088-tid#22688)
```

Server.log

```
2021/08/22 18:14:17.493000:AAASERVHLAL :tasc :pid#7308-tid#23444(cli) :View on entity VALO_00000000000684- Failed (Msg ERROR)
2021/08/22 18:14:26.074000:AAASERVHLAL :tasc :pid#7308-tid#23444(cli) :View on entity VALO_00000000000684- Creation of the views (VALO_00000000000684) failed! (Msg ERROR)
2021/08/22 18:14:31.927000:AAASERVHLAL :tasc :pid#7308-tid#23444(cli) :Table on entity VALO_00000000000684- Applying modifications on tables failed (see $AAAHOME/msg/log file or Standard error stream) (Msg ERROR)
```

1. Find the format code with job_id=00000000000683
2. Ftp aaa_install.cfg into \$AAAHOME/install folder in windows
3. The format PCK_DS_PA1_CLI_PTF (Used to edit the domain) while clicking on the execute button. Add this format into the format composition of advisor.

Load data into oracle (parallel to sqldlr)

Monday, August 23, 2021 12:25 PM

```
LOAD DATA
    [LOW_PRIORITY | CONCURRENT] [LOCAL]
    INFILE 'file_name'
    [REPLACE | IGNORE]
    INTO TABLE tbl_name
    [PARTITION (partition_name [, partition_name] ...)]
    [CHARACTER SET charset_name]
    [{FIELDS | COLUMNS}
        [TERMINATED BY 'string']
        [OPTIONALLY ENCLOSED BY 'char']
        [ESCAPED BY 'char']
    ]
    [LINES
        [STARTING BY 'string']
        [TERMINATED BY 'string']
    ]
    [IGNORE number {LINES | ROWS}]
    [(col_name_or_user_var
        [, col_name_or_user_var] ...)]
    [SET col_name=expr | DEFAULT]
    [, col_name=expr | DEFAULT] ...
]
```

From <https://docs.oracle.com/cd/E17952_01/mysql-5.6-en/load-data.html>

The `LOAD DATA` statement reads rows from a text file into a table at a very high speed. The file can be read from the server host or the client host, depending on whether the `LOCAL` modifier is given. `LOCAL` also affects data interpretation and error handling.

`LOAD DATA` is the complement of `SELECT ... INTO OUTFILE`. (See [Section 13.2.9.1, "SELECT ... INTO Statement"](#).) To write data from a table to a file, use `SELECT ... INTO OUTFILE`. To read the file back into a table, use `LOAD DATA`. The syntax of the `FIELDS` and `LINES` clauses is the same for both statements.

The `mysqlimport` utility provides another way to load data files; it operates by sending a `LOAD DATA` statement to the server. See [Section 4.5.5, "mysqlimport — A Data Import Program"](#). For information about the efficiency of `INSERT` versus `LOAD DATA` and speeding up `LOAD DATA`, see [Section 8.2.4.1, "Optimizing INSERT Statements"](#).

- [Non-LOCAL Versus LOCAL Operation](#)
- [Input File Character Set](#)
- [Input File Location](#)
- [Security Requirements](#)
- [Duplicate-Key and Error Handling](#)
- [Index Handling](#)
- [Field and Line Handling](#)
- [Column List Specification](#)
- [Input Preprocessing](#)
- [Column Value Assignment](#)
- [Partitioned Table Support](#)
- [Concurrency Considerations](#)
- [Statement Result Information](#)
- [Replication Considerations](#)
- [Miscellaneous Topics](#)

From <https://docs.oracle.com/cd/E17952_01/mysql-5.6-en/load-data.html>

GUI Memory Setting & Monitoring

Friday, August 27, 2021 10:30 AM

- A test with the GUI of TA23.1.06 has shown less memory usage. So this confirms the known bug fixed in TA23.1.06 ([PMSTA-33980](#))
- An exit/kill of the GUI will free up all the reserved memory, so the end-users could restart the application after lunchtime maybe.
- Per our documentation, you increase the maximum memory allocation on Windows for the GUI to 3.4GB. Concretely, in the Windows registry, you need/change to set AAAMEMMAXALLOC=3400000
- We can also increase the memory warning messages and increase the threshold from 80%/95% to 90%/95% for example. The end-users will have less warning messages.
- AAAMEMPERCENTTHRESHOLD1=95
- AAAMEMPERCENTTHRESHOLD2=99

Memory fix for the gui

<https://bitbucket.temenos.com/projects/TWS/repos/ta/commits/8dca26c6854c8cc242d1882fe5fce4e71d5525f8>

From <<http://rd.temenosgroup.com/browse/PMSTA-38537>>

Temporary table in oracle (Session & Transaction)

Saturday, September 18, 2021 7:08 PM

Oracle's temporary tables are similar to temp tables in those other databases the main exception being that they are 'statically' defined. You create them once per database, not once per stored procedure in the database. They always exist but appear empty until you put data in them. They may be SESSION based (data survives a commit but not a disconnect/reconnect). They may be TRANSACTION based (data disappears after a commit). Here is an example showing the behaviour of both. I used the scott.emp table as a template:

```
SQL> create global temporary table temp_table_session
2 on commit preserve rows
3 as
4 select * from scott.emp where 1=0
5 /
Table created.
```

the ON COMMIT PRESERVE ROWS makes this a session based temporary table. rows will stay in this table until a logoff. Only I can see them though, no other session will ever see 'my' rows even after I commit

```
SQL>
SQL>
SQL> create global temporary table temp_table_transaction
2 on commit delete rows
3 as
4 select * from scott.emp where 1=0
5 /
Table created.
```

the ON COMMIT DELETE ROWS makes this a transaction based temp table. when you commit -- the rows disappear.

```
SQL> insert into temp_table_session select * from scott.emp;
14 rows created.

SQL> insert into temp_table_transaction select * from temp_table_session;
14 rows created.
```

we've just put 14 rows into each temp table and this shows we can 'see' them:

```
SQL> select count(*) from temp_table_session
2 /
COUNT(*)
-----
14

SQL> select count(*) from temp_table_transaction
2 /
COUNT(*)
-----
14

SQL> commit;
Commit complete.
```

since we've committed, we'll see the session based rows but not the transaction based rows:

```
SQL>
SQL> select count(*) from temp_table_session
2 /
COUNT(*)
-----
14

SQL> select count(*) from temp_table_transaction
2 /
COUNT(*)
-----
0

SQL>
```

```
SQL> connect tkyte/tkyte
Connected.
SQL>
```

since we've started a new session, we'll see no rows now:

```
SQL>
SQL> select count(*) from temp_table_session
2 /
COUNT(*)
-----
0

SQL> select count(*) from temp_table_transaction
2 /
```

```
COUNT(*)  
-----  
0  
SQL>
```

Instead of executing "select x, y, z into #temp from some_table" you would:

- o once per database create "TEMP" as a global temporary table.
- o then in your procedures you would simply "insert into temp (x,y,z) select x,y,y from some_table"

From <https://asktom.oracle.com/pls/apex/f?p=100:11:0:::P11_QUESTION_ID:48812348054>

https://asktom.oracle.com/pls/apex/f?p=100:11:0:::P11_QUESTION_ID:48812348054

Shell script Command Substitution \${}, \${}

Monday, September 20, 2021 10:26 AM

- \${} – the command substitution
- \${} – the parameter substitution/variable expansion

From <https://linuxhint.com/use_expansions_shell_script/>

```
$ s=123
$ echo "hello $( s=world; echo "$s" )"
hello world
$ echo "$s"
123
```

From <<https://unix.stackexchange.com/questions/440088/what-is-command-substitution-in-a-shell>>

```
domain='http://www.whitehouse.gov'
path='/some/path'
base_url="$domain$path"
page='index.html'
# download http://www.whitehouse.gov/some/path/index.html
# and save to 'downloads/index.html'
curl "$base_url$page" -o "downloads/$page"
```

From <<http://www.compciv.org/topics/bash/variables-and-substitution/>>

```
for url in $(cat websites.txt); do
    curl $url > megapage.html
done
```

From <<http://www.compciv.org/topics/bash/variables-and-substitution/>>

```
user@host~:$ a=$(echo 'hello' | tr '[:lower:]' '[:upper:]')
user@host~:$ b=$(echo 'WORLD' | tr '[:upper:]' '[:lower:]')
user@host~:$ echo "$a, $b"
HELLO, world
```

From <<http://www.compciv.org/topics/bash/variables-and-substitution/>>

Sybase set command and examples

Saturday, September 25, 2021 5:17 PM

Chapter 1: Commands

set

Description

Sets Adaptive Server query-processing options for the duration of the user's work session; sets some options inside a trigger or stored procedure.

Syntax

```
set @variable = expression [, @variable = expression...]
```

```
set ansinull {on | off}
```

```
set ansi_permissions {on | off}
```

```
set arithabort {arith_overflow | numeric_truncation}
```

```
{on | off}
```

```
set arithignore {arith_overflow} {on | off}
```

```
set bulk array size number
```

```
set bulk batch size number
```

```
set {chained, close on endtran, nocount, noexec, parseonly, procid,
```

```
self_recursion, showplan, sort_resources} {on | off}
```

```
set char_convert {off | on [with {error | no_error}]}
```

```
charset {with {error | no_error}}
```

```
set cis_rpc_handling {on | off}
```

```
set [clientname client_name | clienthostname
```

```
host_name | clientaplname application_name]
```

```
set cursor rows number for cursor_name
```

```
set {datefirst number, dateformat format,
```

```
language language}
```

```
set fipsflagger {on | off}
```

```
set flushmessage {on | off}
```

```
set forceplan {on | off}
```

```
set identity_insert [database.]table_name
```

```
{on | off}
```

```
set identity_update table_name {on | off}
```

```
set jtc {on | off}
```

```
set lock {wait [numsecs] | nowait}
```

```
set offsets {select, from, order, compute, table,
```

```
procedure, statement, param, execute} {on | off}
```

```
set parallel_degree number
```

```
set plan {dump | load} [group_name] {on | off}
```

```
set plan exists check {on | off}
```

```
set plan replace {on | off}
```

```
set prefetch [on|off]
```

```
set proc_output_params on | off
```

```
set proc_return_status on | off
```

```
set process_limit_action {abort | quiet | warning}
```

```
set proxy login_name
```

```
set quoted_identifier {on | off}
```

```
set role {"sa_role" | "sso_role" | "oper_role" |
```

```
role_name [with passwd "password"]} {on | off}
```

```
set {rowcount number, textsize number}
```

```
set scan_parallel_degree number
```

```
set session authorization login_name
```

```
set sort_merge {on | off}
```

```
set statistics {io, subquerycache, time} {on | off}
```

```
set statistics simulate {on | off}
```

```
set strict_dtr_enforcement {on | off}
```

```
set string_rtruncation {on | off}
```

```
set table count number
```

```
set textsize {number}
```

```
set transaction isolation level {
```

```
[read uncommitted | 0] |
```

```
[read committed | 1] |
```

```
[repeatable read | 2] |
```

```
[serializable | 3]}
```

```
set transactional_rpc {on | off}
```

Parameters

@variable

allows multiple variable assignments in one statement. The `set @variable = expression` command is an identical — and an alternative — command to `select @variable = expression` in Transact-SQL.

expression

includes constant, function, any combination of constants, and functions connected by arithmetic or bitwise operators, or a subquery.

ansinull

impacts on both aggregate and comparison behaviors:

Aggregate behavior `ansinull` determines whether evaluation of NULL-valued operands in aggregate functions is compliant with the ANSI SQL standard. If you use `set ansinull on`, Adaptive Server generates a warning when an aggregate function eliminates a null-valued operand from the calculation.

For example, if you perform the following query on the `titles` table with `set ansinull off` (the default value):

```
select max(total_sales) from titles
```

Adaptive Server returns:

```
-----  
22246
```

However, if you perform the same query with `set ansinull on`, Adaptive Server returns the same value and an error message because the `total_sales` column contains NULL values:

```
-----  
22246  
Warning : null value eliminated in set function
```

This message indicates that some entries in `total_sales` contain NULL instead of a real amount, so you do not have complete data on total sales for all books in this table. However, of the available data, the value returned is the highest.

Comparison behavior The SQL standard requires that if either one of the two operands of an equality comparison is NULL, the result is UNKNOWN. Transact-SQL treats NULL values differently. If one of the operands is a column, parameter, or variable, and the other operand is the NULL constant or a parameter or variable whose value is NULL, the result is either TRUE or FALSE:

- Sybase NULL mode – “val = NULL” is true when “val” is NULL

- ANSI NULL mode – “val = NULL” is unknown when “val” is NULL

The ANSI rule for the `where` and `on` clauses return rows that are true, and rejects rows that are both false and unknown.

The ANSI rule for a `check` constraint rejects values that are false. For this reason, unknown or true results are not rejected.

If you:

- Enable `ansinull` mode – do not use the Sybase NULL comparisons (`val = NULL` or `val != NULL`).
 - Expect to use ANSI-null mode during `insert` and `update` – do not use the Sybase NULL comparisons in `check` constraints.
- Instead, use the `ANSI IS NULL` or `IS NOT NULL` syntax to prevent from having unexpected results.

`ansi_permissions`

determines whether ANSI SQL permission requirements for `delete` and `update` statements are checked. The default is `off`. [Table 1-36](#) summarizes permission requirements:

Command	Permissions required with <code>set ansi_permissions off</code>	Permissions required with <code>set ansi_permissions on</code>
<code>update</code>	• <code>update</code> permission on columns where values are being set	<ul style="list-style-type: none"> • <code>update</code> permission on columns where values are being set • <code>select</code> permission on all columns appearing in <code>where</code> clause • <code>select</code> permission on all columns on right side of <code>set</code> clause
<code>delete</code>	• <code>delete</code> permission on table	<ul style="list-style-type: none"> • <code>delete</code> permission on table • <code>select</code> permission on all columns appearing in <code>where</code> clause

Table 1-36: Permissions required for update and delete

`arithabort`

determines how Adaptive Server behaves when an arithmetic error occurs. The two `arithabort` options, `arithabort arith_overflow` and `arithabort numeric_truncation`, handle different types of arithmetic errors. You can `set` each option independently or `set` both options with a single `set arithabort on` or `set arithabort off` statement.

- `arithabort arith_overflow` specifies Adaptive Server's behavior following a divide-by-zero error or a loss of precision during an explicit or implicit datatype conversion. This type of error is serious. The default setting, `arithabort arith_overflow on`, rolls back the entire transaction in which the error occurs. If the error occurs in a batch that does not contain a transaction, `arithabort arith_overflow on` does not roll back earlier commands in the batch; however, Adaptive Server does not execute any statements in the batch that follow the error-generating statement. If you `set arithabort arith_overflow off`, Adaptive Server aborts the statement that causes the error, but continues to process other statements in the transaction or batch.
- `arithabort numeric_truncation` specifies Adaptive Server's behavior following a loss of scale by an exact numeric type during an implicit datatype conversion. (When an explicit conversion results in a loss of scale, the results are truncated without warning.) The default setting, `arithabort numeric_truncation on`, aborts the statement that causes the error, but Adaptive Server continues to process other statements in the transaction or batch. If you `set arithabort numeric_truncation off`, Adaptive Server truncates the query results and continues processing.

`arithignore arith_overflow`

determines whether Adaptive Server displays a message after a divide-by-zero error or a loss of precision. By default, the `arithignore` option is `set` to `off`. This causes Adaptive Server to display a warning message after any query that results in numeric overflow. To have Adaptive Server ignore overflow errors, use `set arithignore on`. You can omit the optional `arith_overflow` keyword without any effect.

`bulk array size number`

establishes the number of rows that are buffered in local server memory before being transferred using the bulk copy interface.

Use this option only with Component Integration Services for transferring rows to a remote server using `select into`.

View your current setting using the `@@bulkarraysize` global variable.

`number` indicates the number of rows to buffer. If the rows being transferred contain `text`, `image` or `java ADTs`, then the bulk copy interface ignores the current `setting` for array size and uses a value of 1. Also, the array size actually used will never exceed the value of `@@bulkbatchsize`. If `@@bulkbatchsize` is smaller than array size, then the smaller value is used.

The initial value of the array size is inherited by new connections from the current `setting` of the configuration property `cis bulk insert array size`, which defaults to 50. Setting this value to 0 will `reset` the value to the default.

`bulk batch size number`

establishes the number of rows transferred to a remote server via `select into proxy_table` when the bulk interface is used. The bulk interface is available to all Adaptive Servers, as well as DirectConnect for Oracle version 12.5.1.

Use this option only with Component Integration Services for transferring rows to a remote server using `select into`.

View your current setting using the `@@bulkbatchsize` global variable.

The bulk interface allows a `commit` after a specified number of rows. This allows the remote server to free any log space being consumed by the bulk transfer operation, and enables the transfer of large data sets from one server to another without filling the transaction log.

The initial value of the batch size is inherited by new connections from the current `setting` of the configuration property `cis bulk insert batch size`, which by default is 0. A value of 0 indicates that no rows should be committed until after the last row is transferred.

`chained`

begins a transaction just before the first data retrieval or data modification statement at the beginning of a session and after a transaction ends. In chained mode, Adaptive Server implicitly executes a `begin transaction` command before the following statements: `delete`, `fetch`, `insert`, `lock table`, `open`, `select`, and `update`. You cannot execute `set chained` within a transaction.

`char_convert`

enables or disables character `set` conversion between Adaptive Server and a client. If the client is using Open Client DB-Library release 4.6 or later, and the client and server use different character sets, conversion is turned on during the login process and is `set` to a default based on the character `set` the client is using. You can also use `set char_convert charset` to start conversion between the server character `set` and a different client character `set`.

`charset` can be either the character `set`'s ID or a name from `syscharsets` with a type value of less than 2000.

`set char_convert off` turns conversion off so that characters are sent and received unchanged. `set char_convert on` turns conversion on if it is turned off. If character `set` conversion was not turned on during the login process or by the `set char_convert` command, `set char_convert on` generates an error message.

If you request character set conversion with `set char_convert charset`, and Adaptive Server cannot perform the requested conversion, the conversion state remains the same as it was before the request. For example, if conversion is `set` to `off` prior to the `set char_convert charset` command, conversion remains turned off if the request fails.

When the `WITH NO_ERROR` option is included, Adaptive Server does not notify an application when characters from Adaptive Server cannot be converted to the client's character `set`. Error reporting is initially turned on when a client connects with Adaptive Server: if you do not want error reporting, you must turn it off for each session with `set char_convert (on | charset)` with `no_error`. To turn error reporting back on within a session, use `set char_convert (on | charset)` with `error`.

Whether or not error reporting is turned on, the bytes that cannot be converted are replaced with ASCII question marks (?).

See the *System Administration Guide* for a more complete discussion of error handling in character `set` conversion.

`cis_rpc_handling`

determines whether Component Integration Services handles outbound remote procedure call (RPC) requests by default.

`clientappname`

assigns an application an individual name. This is useful for differentiating among clients in a system where many clients connect to Adaptive Server using the same application name. After you assign a new name to an application, it appears in the `sysprocesses` table under the new name.

`clienthostname`

assigns a host an individual name. This is useful for differentiating among clients in a system where many clients connect to Adaptive Server using the same host name. After you assign a new name to a host, it appears in the `sysprocesses` table under the new name.

`clientname`

assigns a client an individual name. This is useful for differentiating among clients in a system where many clients connect to Adaptive Server using the same client name. After you assign a new name to a user, they appear in the `sysprocesses` table under the new name.

`close on endtran`

causes Adaptive Server to close all cursors opened within a transaction at the end of that transaction. A transaction ends by the use of either the `commit` or `rollback` statement. However, only cursors declared within the scope that `sets` this option (stored procedure, trigger, and so on) are affected. For more information about cursor scopes, see the *Transact-SQL User's Guide*.

For more information about the evaluated configuration, see the *System Administration Guide*.

`cursor rows`

causes Adaptive Server to return the `number` of rows for each cursor `fetch` request from a client application. The `number` can be a numeric literal with no decimal point or a local variable of type `integer`. If the `number` is less than or equal to zero, the value is `set` to 1. You can set the `cursor rows` option for a cursor, whether it is open or closed. However, this option does not affect a `fetch` request containing an `into` clause. `cursor_name` specifies the cursor for which to `set` the number of rows returned.

`datefirst`

uses numeric `settings` to specify the first day of the week. The `us_english` language default is Sunday. To `set` the first day of the week, use the following:

To set the first day of the week as	Use this setting
Monday	1
Tuesday	2
Wednesday	3
Thursday	4
Friday	5
Saturday	6
Sunday (us_english language default)	7



Regardless of which day you `set` as the first day of the week, the value of that first day becomes 1. This value is not the same as the numeric `setting` you use in `set datefirst n`. For example, if you `set` Sunday as your first day of the week, its value is 1. If you `set` Monday as your first day of the week, Monday's value becomes 1. If you `set` Wednesday as your first day of the week, Wednesday's value becomes 1, and so on.

dateformat

sets the order of the date parts *month/day/year* for entering `datetime`, `smalldatetime`, `date` or `time` data. Valid arguments are `mdy`, `dmy`, `ymd`, `ydm`, `myd`, and `dym`. The `us_english` language default is `mdy`.

explicit_transaction_required

when `set` to true, causes any attempts to start an implicit transaction, or send an RPC to a remote server outside a transaction, to fail. All other commands succeed.

fipsflagger

determines whether Adaptive Server displays a warning message when Transact-SQL extensions to entry-level ANSI SQL are used. By default, Adaptive Server does not tell you when you use nonstandard SQL. This option does not disable SQL extensions. Processing completes when you issue the non-ANSI SQL command.

flushmessage

determines when Adaptive Server returns messages to the user. By default, messages are stored in a buffer until the query that generated them is completed or the buffer is filled to capacity. Use `set flushmessage on` to return messages to the user immediately, as they are generated.

forceplan

causes the query optimizer to use the order of the tables in the `from` clause of a query as the join order for the query plan. `forceplan` is generally used when the optimizer fails to choose a good plan. Forcing an incorrect plan can have severely bad effects on I/O and performance. For more information, see the *Performance and Tuning Guide*.

identity_insert

determines whether explicit inserts into a table's IDENTITY column are allowed. (Updates to an IDENTITY column are never allowed.) This option can be used only with base tables. It cannot be used with views or `set` within a trigger.

Setting `identity_insert table_name on` allows the table owner, Database Owner, or System Administrator to explicitly insert a value into an IDENTITY column. Inserting a value into the IDENTITY column allows you to specify a seed value for the column or to restore a row that was deleted in error. Unless you have created a unique index on the IDENTITY column, Adaptive Server does not verify the uniqueness of the inserted value; you can insert any positive integer.

The table owner, Database Owner, or System Administrator can use the `set identity_insert table_name on` command on a table with an IDENTITY column to enable the manual insertion of a value into an IDENTITY column. However, only the following users can actually insert a value into an IDENTITY column, when `identity_insert is on`:

- Table owner
- Database Owner:
- if granted explicit `insert` permission on the column by the table owner
- impersonating the table owner by using the `setuser` command

Setting `identity_insert table_name off` restores the default behavior by prohibiting explicit inserts to IDENTITY columns. At any time, you can use `set identity_insert table_name on` for a single database table within a session.

identity_update

With `set identity_update on`, you can explicitly update the value of the IDENTITY column on a table. `identity_update` changes the identity column value for the qualified rows. When `identity_update` is enabled, you can update the identity value to any value greater than 0. However, if the input value is greater than the `identity_burn_max` value, a new `set` of ID values is allocated, and the `identity_burn_max` value on the OAM page is updated accordingly. If `update` is included in a transaction, the new `identity_burn_max` value cannot be rolled back. You can use `sys_identity` to point to the identity column for `update`. For example:

```
update table_name set sys_identity = value  
where clause
```

Adaptive Server does not check for duplicates entries or verify that entries are unique. You can update an existing value to any positive integer within the range allowed by the column's declared precision. You can check for duplicate entries by creating a unique index on the identity column

jtc

toggles join transitive closure. For more information, see the *Performance and Tuning Guide*.

language

is the official name of the language that displays system messages. The language must be installed on Adaptive Server. The default is `us_english`.

nocount

controls the display of rows affected by a statement. `set nocount on` disables the display of rows; `set nocount off` reenables the count of rows.

noexec

compiles each query but does not execute it. `noexec` is often used with `showplan`. After you `set noexec on`, no subsequent commands are executed (including other `set` commands) until you `set noexec off`.

compiles each subsequent query but does not execute it. `set fmtonly on` is often used with `showplan` for troubleshooting. Set `noexec on` immediately after executing a query. After you `set noexec on`, no subsequent commands are executed (including other `set` commands) until you `set noexec off`. `set noexec` can be used in stored procedures.

lock wait

specifies the length of time that a command waits to acquire locks before aborting and returning an error.

numsecs

specifies the number of seconds a command is to wait to acquire a lock. Valid values are from 0 to 2147483647, the maximum value for an integer.

lock nowait

specifies that if a command cannot acquire a lock immediately, it returns an error and fails. `set lock nowait` is equivalent to `set lock wait 0`.

offsets

returns the position of specified keywords (with relation to the beginning of the query) in Transact-SQL statements. The keyword list is a comma-separated list that can include any of the following Transact-SQL constructs: `select`, `from`, `order`, `compute`, `table`, `procedure`, `statement`, `param`, and `execute`. Adaptive Server returns offsets if there are no errors. This option is used in Open Client DB-Library only.

parallel_degree

specifies an upper limit for the number of worker processes used in the parallel execution of a query. This number must be less than or equal to the number of worker processes per query, as `set` by the `max_parallel_degree` configuration parameter. The `@@parallel_degree` global variable stores the current setting.

parseonly

checks the syntax of each query and returns any error messages without compiling or executing the query. Do not use `parseonly` inside a stored procedure or trigger.

plan

introduces an abstract plan command. For more information, see Chapter 30, "Creating and Using Abstract Plans," in the *Performance and Tuning Guide*.

dump

enables or disables capturing abstract plans for the current connection. If a `group_name` is not specified, the plans are stored in the default group, `ap_stdout`.

load

enables or disables loading abstract plans for the current connection. If a `group_name` is not specified, the plans are loaded from the default group, `ap_stdin`.

group_name

is the name of the abstract plan group to use for loading or storing plans.

exists check

when used with `set plan load`, stores hash keys for up to 20 queries from an abstract plan group in a per-user cache.

replace

enables or disables replacing existing abstract plans during plan capture mode. By default, plan replacement is off.

prefetch

enables or disables large I/Os to the data cache.

proc_output_params

controls sending of output parameters that a stored procedure generates back to the client. `set proc_output_params off` suppresses sending the output parameters back to the client. The default for this parameter is `on`.

proc_return_status

controls sending of a return status TDS token back to the client. `set proc_return_status off` suppresses sending the return status token to the client, and `isql` client does not display the (return status = 0) message. The default for this parameter is `on`.

WARNING! If the client application that executes a procedure relies on the success or failure of the procedure based on the return status, then do not use the `set proc_return_status off` option.

process_limit_action

specifies whether Adaptive Server executes parallel queries when an insufficient number of worker processes is available. Under these circumstances, when `process_limit_action` is `set` to `quiet`, Adaptive Server silently adjusts the plan to use a degree of parallelism that does not exceed the number of available processes. If `process_limit_action` is `set` to `warning` when an insufficient number of worker processes are available, Adaptive Server issues a warning message when adjusting the plan; and if `process_limit_action` is `set` to `abort`, Adaptive Server aborts the query and issues an explanatory message an insufficient number of worker processes are available.

procid

returns the ID number of the stored procedure to Open Client DB-Library/C (not to the user) before sending rows generated by the stored procedure.

proxy

allows you to assume the permissions, login name, and `uid` (server user ID) of `login_name`. For `login_name`, specify a valid login from `master..syslogins`, enclosed in quotation marks. To revert to your original login name and `uid`, use `set proxy` with your original `login_name`.



Without explicit permission, neither the "sa_role" nor the "sso_role" can issue the `set proxy login_name` command. To use `set proxy login_name`, any user, including the System Security Officer, must have permission explicitly granted by the System Security Officer.

See "[Using proxies](#)" for more information.

quoted_identifier

determines whether Adaptive Server recognizes delimited identifiers. By default, `quoted_identifier` is **off** and all identifiers must conform to the rules for valid identifiers. If you use `set quoted_identifier on`, you can use table, view, and column names that begin with a nonalphanumeric character, include characters that would not otherwise be allowed, or are reserved words, by enclosing the identifiers within double quotation marks. Delimited identifiers cannot exceed 28 bytes, may not be recognized by all front-end products, and may produce unexpected results when used as parameters to system procedures.

When `quoted_identifier` is **on**, all character strings enclosed within double quotes are treated as identifiers. Use single quotes around character or binary strings.

role

turns the specified role on or off during the current session. When you log in, all system roles that have been granted to you are turned on. Use `set role role_name off` to turn a role off, and `set role role_name on` to turn it back on again, as needed. System roles are "sa_role", "sso_role", and "oper_role". If you are not a user in the current database, and if there is no "guest" user, you cannot `set sa_role off`, because there is no server user ID for you to assume.

role_name

is the name of any user-defined role created by the System Security Officer. User-defined roles are not turned on by default. To `set` user-defined roles to activate at login, the user or the System Security Officer must use `set role on`.

with password

specifies the password to activate the role. If a user-defined role has an attached password, you must specify the password to activate the role.

rowcount

causes Adaptive Server to stop processing the query (`select`, `insert`, `update`, or `delete`) after the specified number of rows are affected. The `number` can be a numeric literal with no decimal point or a local variable of type `integer`. To turn this option off, use:

`set rowcount 0`

scan_parallel_degree

specifies the maximum session-specific degree of parallelism for hash-based scans (parallel index scans and parallel table scans on nonpartitioned tables). This number must be less than or equal to the current value of the `max scan parallel degree` configuration parameter. The `@ scan_parallel_degree` global variable stores the current setting.

self_recursion

determines whether Adaptive Server allows triggers to cause themselves to fire again (this is called *self recursion*). By default, Adaptive Server does not allow self recursion in triggers. You can turn this option on only for the duration of a current client session; its effect is limited by the scope of the trigger that sets it. For example, if the trigger that sets `self_recursion on` returns or causes another trigger to fire, this option reverts to **off**. This option works only within a trigger and has no effect on user sessions.

session authorization

is identical to `set proxy`, with this exception: `set session authorization` follows the SQL standard, while `set proxy` is a Transact-SQL extension.

showplan

generates a description of the processing plan for the query. The results of `showplan` are of use in performance diagnostics. `showplan` does not print results when it is used inside a stored procedure or trigger. For parallel queries, `showplan` output also includes the adjusted query plan at runtime, if applicable. For more information, see the *Performance and Tuning Guide*.

sort_merge

enables or disables the use of sort-merge joins during a session. For more information, see the *Performance and Tuning Guide*.

sort_resources

generates a description of the sorting plan for a `create index` statement. The results of `sort_resources` are of use in determining whether a sort operation will be done serially or in parallel. When `sort_resources` is **on**, Adaptive Server prints the sorting plan but does not execute the `create index` statement. For more information, see Chapter 24, "Parallel Sorting," in the *Performance and Tuning Guide*.

statistics io

displays the following statistics information for each table referenced in the statement:

- o the number of times the table is accessed (scan count)
- o the number of logical reads (pages accessed in memory)
- o and the number of physical reads (database device accesses)

For each command, `statistics io` displays the number of buffers written.

If Adaptive Server has been configured to enforce resource limits, `statistics io` also displays the total I/O cost. For more information, see Chapter 34, "Using the `set statistics` Commands" in the *Performance and Tuning Guide*.

statistics subquerycache

displays the number of cache hits, misses, and the number of rows in the subquery cache for each subquery.

statistics time

displays the amount of time Adaptive Server used to parse and compile for each command. For each step of the command, `statistics time` displays the amount of time Adaptive Server used to execute the command. Times are given in milliseconds and timeticks, the exact value of which is machine-dependent.

statistics simulate

specifies that the optimizer should use simulated statistics to optimize the query.

strict_dtm_enforcement

determines whether the server propagates transactions to servers that do not support Adaptive Server transaction coordination services. The default value is inherited from the value of the `strict_dtm_enforcement` configuration parameter.

string_tr truncation

determines whether Adaptive Server raises a SQLSTATE exception when an `insert` or `update` command truncates a `char`, `unichar`, `varchar` or `univarchar` string. If the truncated characters consist only of spaces, no exception is raised. The default setting, `off`, does not raise the SQLSTATE exception, and the character string is silently truncated.

table count

sets the number of tables that Adaptive Server considers at one time while optimizing a join. The default used depends on the number of tables in the join:

Tables joined	Tables considered at a time
2 – 25	4
26 – 37	3
38 – 50	2

Valid values are 0 – 8. A value of 0 resets the default behavior. A value greater than 8 defaults to 8. `table count` may improve the optimization of certain join queries, but it increases the compilation cost.

textsize

specifies the maximum size in bytes of `text` or `image` type data that is returned with a `select` statement. The `@@textsize` global variable stores the current setting. To reset `textsize` to the default size (32K), use:

`set textsize 0`

The default setting is 32K in `isql`. Some client software sets other default values.

transaction isolation level

sets the transaction isolation level for your session. After you set this option, any current or future transactions operate at that isolation level.

read uncommitted | 0

scans at isolation level 0 do not acquire any locks. Therefore, the result set of a level 0 scan may change while the scan is in progress. If the scan position is lost due to changes in the underlying table, a unique index is required to restart the scan. In the absence of a unique index, the scan may be aborted.

By default, a unique index is required for a level 0 scan on a table that does not reside in a read-only database. You can override this requirement by forcing the Adaptive Server to choose a nonunique index or a table scan, as follows:

`select * from table_name (index table_name)`

Activity on the underlying table may cause the scan to be aborted before completion.

read committed | 1

By default, Adaptive Server's transaction isolation level is `read committed` or 1, which allows shared read locks on data.

repeatable read | 2

prevents nonrepeatable reads.

serializable | 3

specify isolation level 3, Adaptive Server applies a `holdlock` to all `select` and `readtext` operations in a transaction, which holds the queries' read locks until the end of that transaction. If you also set chained mode, that isolation level remains in effect for any data retrieval or modification statement that implicitly begins a transaction.

transactional_rpc

controls the handling of remote procedure calls. If this option is set to `on`, when a transaction is pending, the RPC is coordinated by Adaptive Server. If this option is set to `off`, the remote procedure call is handled by the Adaptive Server site handler. The default value is inherited from the value of the `enable_xact_coordination` configuration parameter.

Examples

Example 1

Tells Adaptive Server to evaluate NULL-valued operands of equality (=) and inequality (!=) comparisons and aggregate functions in compliance with the entry level ANSI SQL standard:

```
set ansi_nulls on
```

When you use **set ansi_nulls on**, aggregate functions and row aggregates raise the following SQLSTATE warning when Adaptive Server finds null values in one or more columns or rows:

```
Warning - null value eliminated in set function
```

If the value of either the equality or the inequality operands is NULL, the comparison's result is UNKNOWN. For example, the following query returns no rows in **ansi_nulls** mode:

```
select * from titles where price = null
```

If you use **set ansi_nulls off**, the same query returns rows in which *price* is NULL.

Example 2

Activates character set conversion, setting it to a default based on the character set the client is using. Adaptive Server also notifies the client or application when characters cannot be converted to the client's character set:
set char_convert on with error

Example 3

Specifies that Component Integration Services handles outbound RPC requests by default:

```
set cis_rpc_handling on
```

Example 4

Assigns this user:

- The client name alison
- The host name money1
- The application name webserver2

```
set clientname 'alison'  
set clienthostname 'money1'  
set clientappliance 'webserver2'
```

Example 5

Returns five rows for each succeeding **fetch** statement requested by a client using **test_cursor**:

```
set cursor rows 5 for test_cursor
```

Example 6

Inserts a value of 100 into the IDENTITY column of the *stores_south* table, then prohibits further explicit inserts into this column. Note the use of the **syb_identity** keyword; Adaptive Server replaces the keyword with the name of the IDENTITY column:

```
set identity_insert stores_south on  
go  
insert stores_south (syb_identity)  
values (100)  
go  
set identity_insert stores_south off  
go
```

Example 7

Enables **identity_update** and updates tables with values 1 and 10, respectively, then disables **identity_update**:

```
set identity_update t1 on  
update t1 set c2 = 10 where c1 = 1  
select * from t1  
c1      c2  
-----  
1       10
```

```
set identity_update t1 off
```

Example 8

Tells Adaptive Server to display a warning message if you use a TransactSQL extension:

```
set fipsflagger on
```

Then, if you use nonstandard SQL, like this:

```
use pubs2
```

```
go
```

Adaptive Server displays:

SQL statement on line number 1 contains Non-ANSI text. The error is caused due to the use of use database.

Example 9

Subsequent commands in the session or stored procedure return an error and fail if they cannot get requested locks immediately:

```
set lock nowait
```

Example 10

Subsequent commands in the current session or stored procedure wait indefinitely long to acquire locks:

```
set lock wait
```

Example 11

Subsequent commands in the session or stored procedure wait 5 seconds to acquire locks before generating an error message and failing:

```
set lock wait 5
```

Example 12

Enables capturing abstract plans to the *dev_plans* group:

```
set plan dump dev_plans on
```

Example 13

Enables loading of abstract plans from the *dev_plans* group for queries in the current session:

```
set plan load dev_plans on
```

Example 14

Suppresses the output of parameter information:

```
1> create procedure sp_pout (@x int output) as select @x = @x + 1  
2> go  
1> set proc_output_params off  
2> go
```

```
1> declare @x int  
2> select @x = 1  
3> exec sp_pout @x output  
4> print "Value of @x returned from sproc is: %1!", @x  
5> go
```

(1 row affected)
(return status = 0)

Value of @x returned from sproc is: 2

If you do not perform **set proc_output_params off**, the output after (return status = 0) includes the following:

Return parameters:

2

Example 15

Suppresses the output of both parameters and the return status TDS token:

```
set proc_output_params OFF
go
set proc_return_status OFF
go

declare @x int
select @x = 2
exec sp_pout @x output
print "Value of @x returned from sproc is: %1!", @x
go(1 row affected)
Value of @x returned from sproc is: 3
(1 row affected)
```

In addition, you can also suppress the lines reporting the number of rows affected to generate output with no extra messages using the `set nocount on` option before running this batch.

Example 16

The user executing this command now operates within the server as the login "mary" and Mary's server user ID:

```
set proxy "mary"
```

Example 17

For each `insert`, `update`, `delete`, and `select` statement, Adaptive Server stops processing the query after it affects the first four rows. For example:

```
select title_id, price from titles
title_id price
-----
```

```
BU1032    19.99
BU1111    11.95
BU2075    2.99
BU7832    19.99
(4 rows affected)
```

```
set rowcount 4
```

Example 18

Tells Adaptive Server to treat any character string enclosed in double quotes as an identifier. The table name "`"&strange_table`" and the column name "`emp's_name`" are legal identifier names while `quoted_identifier` is on:

```
set quoted_identifier on
go
create table "!"&strange_table"
  ("emp's_name" char(10),
   age int)
go
set quoted_identifier off
go
```

Example 19

Activates the "doctor" role. This command is used by users to specify the roles they want activated:

```
set role doctor_role on
```

Example 20

Deactivates the user's System Administrator role for the current session:

```
set role "sa_role" off
```

Example 21

Activates the "doctor" role when the user enters the password:

```
set role doctor_role with password "physician" on
```

Example 22

Deactivates the "doctor" role:

```
set role doctor_role off
```

Example 23

Specifies a maximum degree of parallelism of 4 for parallel index scans and parallel table scans on nonpartitioned tables:

```
set scan_parallel_degree 4
```

Example 24

An alternative way of stating example 5:

```
set session authorization "mary"
```

Example 25

For each query, returns a description of the processing plan, but does not execute it:

```
set showplan, noexec on
go
select * from publishers
go
```

Example 26

Causes Adaptive Server to generate an exception when truncating a `char`, `unichar`, or `nchar` string:

```
set string_rtrim on
```

If an `insert` or `update` statement would truncate a string, Adaptive Server displays:

```
string data, right truncation
```

Example 27

Sets the limit on `text` or `image` data returned with a `select` statement to 100 bytes:

```
set textsize 100
```

Example 28

Specifies that when a transaction is pending, the RPC is handled by the Component Integration Services access methods rather than by the Adaptive Server site handler:

```
set transactional_rpc on
```

Example 29

All subsequent queries in the session run at the repeatable reads transaction isolation level:

```
set transaction isolation level 2
```

Example 30

Implements read-locks with each `select` statement in a transaction for the duration of that transaction:

`set transaction isolation level 3`

Usage

- Some `set` options can be grouped together, as follows:
 - `parseonly, noexec, prefetch, showplan, rowcount, and nocount` control the way a query is executed. It does not make sense to set both `parseonly` and `noexec` on. The default setting for `rowcount` is 0 (return all rows); the default for the others is off.
 - The `statistics` options display performance statistics after each query. The default setting for the `statistics` options is off. For more information about `noexec, prefetch, showplan` and `statistics`, see the *Performance and Tuning Guide*.
 - You can update up to 1024 columns in the `set` clause using literals, variables, or expressions returned from a subquery.
 - `offsets` and `procid` are used in DB-Library to interpret results from Adaptive Server. The default setting for these options is on.
 - `datefirst, dateformat, and language` affect date functions, date order, and message display. If used within a trigger or stored procedure, these options do not revert to their previous settings. In the default language, us_english, `datefirst` is 1 (Sunday), `dateformat` is mdy, and messages are displayed in us_english. Some language defaults (including us_english) produce Sunday=1, Monday=2, and so on; others produce Monday=1, Tuesday=2, and so on.
 - `set language` implies that Adaptive Server should use the first weekday and date format of the language it specifies, but does not override explicit `set datefirst` or `set dateformat` command issued earlier in the current session.
 - `cursor rows` and `close on endtran` affect the way Adaptive Server handles cursors. The default setting for `cursor rows` with all cursors is 1. The default setting for `close on endtran` is off.
 - `chained` and `transaction isolation level` allow Adaptive Server to handle transactions in a way that is compliant with the SQL standards.
- `tipsflagger, string_tr truncation, ansinull, ansi_permissions, arithabort, and arithignore` affect aspects of Adaptive Server error handling and compliance to SQL standards.

 The `arithabort` and `arithignore` options were redefined for version 10.0 and later. If you use these options in your applications, examine them to verify they are still producing the desired effect.

- You can use the `cis_rpc_handling` and `transactional_rpc` options only when Component Integration Services is enabled.
- When the `quoted_identifier` option is set to on, you do not need to use double quotes around an identifier if the syntax of the statement requires that a quoted string contain an identifier. For example:

However, `object_id` requires a string, so you must include the table name in quotes to select the information:

896003192

You can include an embedded double quote in a quoted identifier by doubling the quote:
`create table "embedded""quote" (c1 int)`

However, there is no need to double the quote when the statement syntax requires the object name to be expressed as a string:
`select object_id('embedded"quote')`

- `parallel_degree` and `scan_parallel_degree` limit the degree of parallelism for queries, if Adaptive Server is configured for parallelism. When you use these options, you give the optimizer a hint to limit parallel queries to use fewer worker processes than allowed by the configuration parameters. Setting these parameters to 0 restores the server-wide configuration values. If you specify a number that is greater than the numbers allowed by the configuration parameters, Adaptive Server issues a warning message and uses the value set by the configuration parameter.
- If you use the `set` command inside a trigger or stored procedure, most `set` options revert to their former settings after the trigger or procedure executes. The following options do not revert to their former settings after the procedure or trigger executes, but remain for the entire Adaptive Server session or until you explicitly reset them:
 - `datefirst`
 - `dateformat`
 - `identity_insert`
 - `language`
 - `quoted_identifier`
- If you specify more than one `set` option, the first syntax error causes all following options to be ignored. However, the options specified before the error are executed, and the new option values are set.
- If you assign a user a client name, host name, or application name, these assignments are only active for the current session. You must reassign these the next time the user logs in. Although the new names appear in sysprocesses, they are not used for permission checks, and `sp_who` still shows the client connection as belonging to the original login. For more information about setting user processes, see the *System Administration Guide*.
- All `set` options except `showplan` and `char_convert` take effect immediately. `showplan` takes effect in the following batch. Here are two examples that use `set showplan on`:

`set showplan on`
`select * from publishers`
go

pub_id	pub_name	city	state
0736	New Age Books	Boston	MA
0877	Binnet & Hardley	Washington	DC
1389	Algodata Infosystems	Berkeley	CA

(3 rows affected)

But:
`set showplan on`
`go`
`select * from publishers`
go

QUERY PLAN FOR STATEMENT 1 (at line 1).

STEP 1

The type of query is SELECT

```
FROM TABLE
  publishers
 Nested Iteration
 Table Scan
 Ascending Scan.
 Positioning at start of table.
```

pub_id	pub_name	city	state
0736	New Age Books	Boston	MA
0877	Binnet & Hardley	Washington	DC
1389	Algodata Infosystems	Berkeley	CA

(3 rows affected)

Roles and `set` options

- When you log in to Adaptive Server, all system-defined roles granted to you are automatically activated. User-defined roles granted to you are not automatically activated. To automatically activate user-defined roles granted to you, use `sp_modifylogin`. See `sp_modifylogin` in Reference Manual: Procedures. Use `set role role_name on` or `set role role_name off` to turn roles on and off. For example, if you have been granted the System Administrator role, you assume the identity (and user ID) of Database Owner in the current database. To assume your real user ID, execute this command:
`set role "sa_role" off`
- If you are not a user in the current database, and if there is no "guest" user, you cannot set `sa_role` off.
- If the user-defined role you intend to activate has an attached password, you must specify the password to turn the role on. Thus, you would enter:
`set role "role_name" with password "password"`

Distributed transactions, CIS, and `set` options

- The behavior of the `cis rpc handling` configuration property and the `set transactional_rpc` commands changed with the introduction of ASTC. In versions earlier than 12.0, enabling `cis rpc handling` caused all RPCs to be routed through CIS's Client Library connection. As a result, whenever `cis rpc handling` was enabled, `transactional_rpc` behavior occurred whether or not it had been specifically set. As of Adaptive Server 12.0, this behavior has changed. If `cis rpc handling` is enabled and `transactional_rpc` is off, RPCs within a transaction are routed through the site handler. RPCs executed outside a transaction are sent via CIS's Client Library connection.
- When Adaptive Server distributed transaction management services are enabled, you can place RPCs within transactions. These RPCs are called *transactional RPCs*. A transactional RPC is an RPC whose work can be included in the context of a current transaction. This remote unit of work can be committed or rolled back along with the work performed by the local transaction. To use transactional RPCs, enable CIS and distributed transaction management with `sp_configure`, then issue the `set transactional_rpc` command. When `set transactional_rpc` is on and a transaction is pending, the Adaptive Server (as opposed to the Adaptive Server site handler) coordinates the RPC. The `set transactional_rpc` command default is off. The `set cis_rpc_handling` command overrides the `set transactional_rpc` command. If you set `cis_rpc_handling` on, all outbound RPCs are handled by Component Integration Services.

- See the *Component Integration Services User's Guide* for a discussion of using `set transactional_rpc`, `set cis_rpc_handling`, and `sp_configure`.

Using proxies



Without explicit permission, neither the "sa_role" nor the "sso_role" can issue the `set proxy login_name` command. To use `set proxy login_name`, any user, including the System Security Officer, must have permission explicitly granted by the System Security Officer.

Security Officer.

- Before you can use the `set proxy` or `set session authorization` command, a System Security Officer must grant permission to execute `set proxy` or `set session authorization` from the *master* database.
- Executing `set proxy` or `set session authorization` with the original *login_name* reestablishes your previous identity.
- You cannot execute `set proxy` or `set session authorization` from within a transaction.
- Adaptive Server permits only one level of login identity change. Therefore, after you use `set proxy` or `set session authorization` to change identity, you must return to your original identity before changing it again. For example, assume that your login name is "ralph". To create a table as "mary", create a view as "joe", then return to your own login identity. Use the following statements:

```
set proxy "ralph"
create table mary_sales
(stor_id char(4),
ord_num varchar(20),
date datetime)
grant select on mary_sales to public
set proxy "ralph"
create view joes_view (publisher, city,
state)
as select stor_id, ord_num, date
from mary_sales
set proxy "ralph"
```

Using lock wait

- By default, an Adaptive Server task that cannot immediately acquire a lock waits until incompatible locks are released, then continues processing. This is equivalent to `set lock wait` with no value specified in the *numsecs* parameter.
- You can set a server-wide lock wait period by using `sp_configure` with the `lock wait period` option.
- `lock wait period`, with the session-level setting `set lock wait nnn`, is only applicable for user-defined tables. These settings have no influence on system tables.
- A lock wait period defined at the session level or in a stored procedure with the `set lock` command overrides a server-level lock-wait period.
- If `set lock wait` is used by itself, with no value for *numsecs*, all subsequent commands in the current session wait indefinitely to acquire requested locks.
- `sp_sysmon` reports the number of times that tasks waiting for a lock could not acquire the lock within the waiting period.

Repeatable-reads transaction isolation level

- The repeatable-reads isolation level, also known as transaction isolation level 2, holds locks on all pages read by the statement until the transaction completes.
- A nonrepeatable read occurs when one transaction reads rows from a table and a second transaction can modify the same rows and commit the changes before the first transaction completes. If the first transaction rereads the rows, they now have different values, so the initial read is not repeatable. Repeatable reads hold shared locks for the duration of a transaction blocking transactions that update the locked rows or rows on the locked pages.

Using simulated statistics

- You can load simulated statistics into a database using the `simulate` mode of the `optdiag` utility program. If `set statistics simulate on` has been issued in a session, queries are optimized using simulated statistics, rather than the actual statistics for a table.

Global variables affected by `set` options

- [Table 1-37](#) lists the global variables that contain information about the session options controlled by the `set` command.

Global variable	Description
<code>@@char_convert</code>	Contains 0 if character <code>set</code> conversion not in effect. Contains 1 if character <code>set</code> conversion is in effect.
<code>@@isolation</code>	Contains the current isolation level of the Transact-SQL program. <code>@@isolation</code> takes the value of the active level (0, 1, or 3).
<code>@@options</code>	Contains a hexadecimal representation of the session's <code>set</code> options.
<code>@@parallel_degree</code>	Contains the current maximum parallel degree setting.
<code>@@rowcount</code>	Contains the number of rows affected by the last query. <code>@@rowcount</code> is set to 0 by any command that does not return rows, such as an <code>if</code> , <code>update</code> , or <code>delete</code> statement. With cursors, <code>@@rowcount</code> represents the cumulative number of rows returned from the cursor result set to the client, up to the last <code>fetch</code> request. <code>@@rowcount</code> is updated even when <code>nocount</code> is on.
<code>@@scan_parallel_degree</code>	Contains the current maximum parallel degree setting for nonclustered index scans.
<code>@@textsize</code>	Contains the limit on the number of bytes of <code>text</code> or <code>image</code> data a <code>select</code> returns. Default limit is 32K bytes for <code>isql</code> ; the default depends on the client software. Can be changed for a session with <code>set textsize</code> .
<code>@@tranchained</code>	Contains the current transaction mode of the Transact-SQL program. <code>@@tranchained</code> returns 0 for unchained or 1 for chained.

Table 1-37: Global variables containing session options

Using fipsflagger with Java in the database

- When `fipsflagger` is on, Adaptive Server displays a warning message when these extensions are used:
- The `installjava` utility
- The `remove java` command
- Column and variable declarations that reference Java classes as datatypes
- Statements that use Java-SQL expressions for member references
- The status of `fipsflagger` does not affect arithmetic expressions performed by Java methods.
- For more information about Java in the database, see *Java in Adaptive Server Enterprise*.

Standards

ANSI SQL – Compliance level: Transact-SQL extension.

The ANSI SQL standard specifies behavior that differs from Transact-SQL behavior in earlier Adaptive Server versions. Compliant behavior is enabled by default for all EmbeddedSQL precompiler applications. Other applications needing to match this standard of behavior can use the `set` options listed in [Table 1-38](#).

Option	Setting
<code>ansi_permissions</code>	on
<code>ansinull</code>	on
<code>arithabort</code>	off
<code>arithabort numeric_truncation</code>	on
<code>arithignore</code>	off
<code>chained</code>	on
<code>close on endtran</code>	on
<code>fipsflagger</code>	on
<code>quoted_identifier</code>	on
<code>string_tr truncation</code>	on
<code>transaction isolation level</code>	3

Table 1-38: Options to `set` for entry level ANSI SQL compliance

Permissions

In general, `set` permission defaults to all users and no special permissions are required to use it. Exceptions include `set role`, `set proxy`, and `set session authorization`.

To use `set role`, a System Administrator or System Security Officer must have granted you the role. If you gain entry to a database only because you have a certain role, you cannot turn that role off while you are using the database. For example, if you are not normally authorized to use a database `info_plan`, but you use it as a System Administrator, Adaptive Server returns an error message if you try to `set sa_role off` while you are still in `info_plan`.

To use `set proxy` or `set session authorization`, you must have been granted permission by a System Security Officer.

See also

Commands [create trigger](#), [fetch](#), [grant](#), [insert](#), [lock table](#), [revoke](#)

Functions [convert](#)

Utilities [isql](#), [optdiag](#)

SYS_SESSION system application context

The **SYS_SESSION** context shows the default predefined application context, which provides session-specific pairs of attributes and values. The syntax for using the context is:

```
select list_appcontext ("SYS_SESSION", "")
```

Then:

```
select get_appcontext ("SYS_SESSION", "<attribute>")
```

Attribute	Value
username	Login name
hostname	Host name from which the client has connected
appname	Name of the application as set by the client
suserid	User ID of the user in the current database
groupid	Group ID of the user in the current database
dbid	ID of the user's current database
dbname	Current database
spid	Server process ID
proxy_suserid	The server user ID of the proxy
client_name	Client name set by the middle-tier application, using the set client_name command
client_applname	Client application name set by the middle-tier application, using the set client_applname command
client_hostname	Client host name set by the middle-tier application, using the set client_hostname command
language	Current language the client is using by default or after using the set language command (@@language)
character_set	Character set the client is using (@@client_csname)
dateformat	Date expected by the client, set using the set dateformat command
is_showplan_on	Returns YES if set showplan is on, NO if it is off
is_noexec_on	Returns YES if set no exec is on, NO if it is off

Table 17-6: SYS_SESSION attributes and values

From <<https://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc31654.1550/html/sag1/CHDIFDHE.htm?resultof=%22%73%65%74%22%20%22%64%61%74%65%66%6f%72%6d%61%74%22%20>>

```
select get_appcontext ("SYS_SESSION", "username")
```

Raising JIRA requests for TSR

26 June 2023 11:19

[ATLCONSO Service Desk - Service project \(temenos.com\)](#)

Hello,

Please be advised that for all requests/ incidents related to <https://servicedesk.temenos.com/>, moving forward, a ticket has to be opened via <https://jira.temenos.com/servicedesk/customer/portal/25>.

When creating the ticket, please select the following categories:

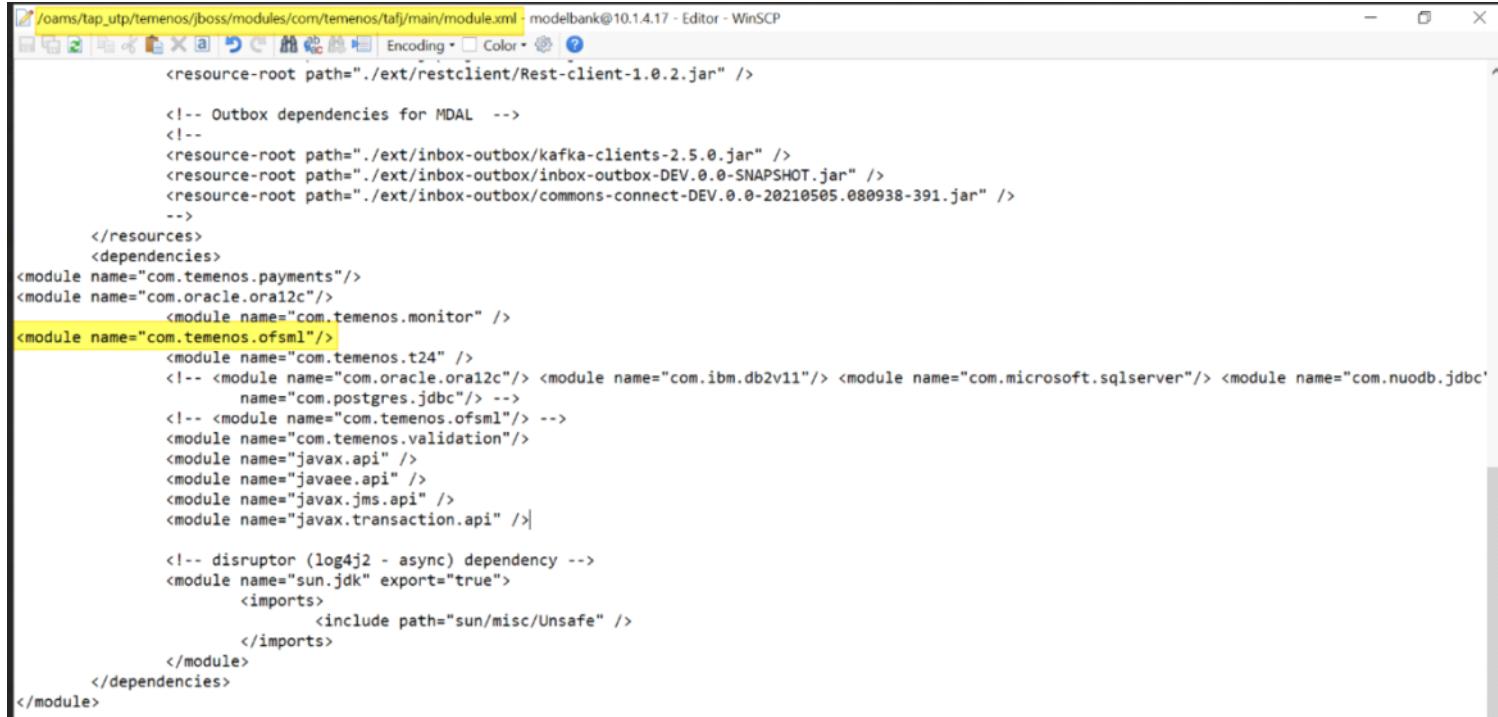
- Customer-Jira SD
- Customer-Jira Software

Best regards,
Cloud Jira Support team.

F2F not working - Transact configuration

05 May 2023 15:01

1. One of the entry was missing in module.xml. This is required for Camel to work in F2B
2. we see some error in ejb.log or mdb.log in TAFJ/log folder in case camel is not working
3. compared the config files with the BNPP area which is already working with camel and found this



The screenshot shows a WinSCP Editor window displaying the contents of a file named 'module.xml'. The file path is '/oams/tap_otp/temenos/jboss/modules/com/temenos/tafj/main/module.xml'. The code in the editor is as follows:

```
<resource-root path=".ext/restclient/Rest-client-1.0.2.jar" />

<!-- Outbox dependencies for MDAL -->
<!--
<resource-root path=".ext/inbox-outbox/kafka-clients-2.5.0.jar" />
<resource-root path=".ext/inbox-outbox/inbox-outbox-DEV.0.0-SNAPSHOT.jar" />
<resource-root path=".ext/inbox-outbox/commons-connect-DEV.0.0-20210505.080938-391.jar" />
-->
</resources>
<dependencies>
<module name="com.temenos.payments"/>
<module name="com.oracle.ora12c"/>
<module name="com.temenos.ofsm1">
    <module name="com.temenos.t24" />
    <!-- <module name="com.oracle.ora12c"/> <module name="com.ibm.db2v11"/> <module name="com.microsoft.sqlserver"/> <module name="com.nuodb.jdbc" name="com.postgres.jdbc"/> -->
    <!-- <module name="com.temenos.ofsm1"/> -->
    <module name="com.temenos.validation"/>
    <module name="javax.api" />
    <module name="javaee.api" />
    <module name="javax.jms.api" />
    <module name="javax.transaction.api" />

    <!-- disruptor (log4j2 - async) dependency -->
    <module name="sun.jdk" export="true">
        <imports>
            <include path="sun/misc/Unsafe" />
        </imports>
    </module>
</dependencies>
</module>
```

Multi-Access Flow Details from RPC to Execute Batch

22 December 2022 21:56

ORA-20222: lev=1 proc=ui_ext_order_trg : The dict_entity_value (ext_order.code operation) value already exists in the table ARCHLA-Mod-01Te00003; message 20222
ORA-06512: at "AAAMAINDB.APPL_RAISERROR", line 55
ORA-06512: at "AAAMAINDB.I_EXT_ORDER_TRG", line 176
ORA-04088: error during execution of trigger 'AAAMAINDB.I_EXT_ORDER_TRG'
ORA-06512: at "AAAMAINDB.INS_EXT_ORDER_BY_ID", line 76700739
ORA-06512: at line 1

CALLSTACK :026F2BB0 : MSG_LogMesg line:5159 msglib01.c
027588E0 : ORA_StatementExecute line:1278 orastatm.c
02765B60 : OraConnection::doExecuteBatch line:319 oraconnection.cpp
02494120 : DbiConnection::executeBatch line:1255 dbiconnection.cpp
024A27A0 : RequestHelper::realFlushBatch line:7094 dbiconnection.cpp
024A24F0 : RequestHelper::flushBatch line:6809 dbiconnection.cpp
024A3900 : RequestHelper::executeBatch line:7197 dbiconnection.cpp
0176A6A0 : DBA_MultiAccessSendData line:3273 dbalib04.c
0176B330 : DBA_MultiAccessInternal line:2236 dbalib04.c
01761D30 : DBA_MultiAccess line:1390 dbalib04.c
01761D90 : DBA_HandleOperTabByBlock line:4749 dbalib04.c
0176B330 : DBA_MultiAccessInternal line:2424 dbalib04.c
01761D30 : DBA_MultiAccess line:1390 dbalib04.c
00D7E6C0 : DBA_CurrencyModify line:1809 dbaserv.c
00FF52F0 : SERV_CurrencyModify line:3472 servfin.c
0145B7D0 : SERV_RpcCurrencyModifyByldCore line:9330 servlib3.c

Actuate Level Issues

27 December 2022 20:26

<http://rd.temenosgroup.com/browse/OCS-27094>
<http://rd.temenosgroup.com/browse/SUPPORT-3196>
<http://rd.temenosgroup.com/browse/SUPPORT-4483>
<http://rd.temenosgroup.com/browse/OCS-48957>

[OCS-26953] Reporting (Mode AAA) - Crash when having two (and more) concurrent requests to generate a report - Odyssey's R&D Tracking Board (temenosgroup.com)

Library jar file has been deployed on the server, but the update of the scripts \$AC_SERVER_HOME/bin/pmd11.sh for CLASSPATH has not been done.

For sample. On SIT Actuate server in pmd11.sh we can see the update of the CLASSPATH

```
AC_ODBC_HOME=$AC_SERVER_HOME/odbc
XPHOME=$AC_SERVER_HOME/operation
XPPATH=$AC_SERVER_HOME/operation/xprinter
#CLASSPATH=$AC_JRE_HOME/lib/rt.jar:$CLASSPATH
CLASSPATH=$AC_HOME/lib/rt.jar:$AC_SERVER_HOME/commons-logging.jar:$AC_SERVER_HOME/javalib/commons-codec.jar:$AC_SERVER_HOME/javalib/commons-pool2.jar:$AC_SERVER_HOME/javalib/httpclient.jar:$AC_SERVER_HOME/javalib/jackson-annotations.jar:$AC_SERVER_HOME/javalib/httpcore.jar:$AC_SERVER_HOME/javalib/jackson-core.jar:$AC_SERVER_HOME/javalib/jackson-databind.jar:$AC_SERVER_HOME/javalib/jackson-jcogn4.jar:$AC_SERVER_HOME/javalib/joda-time.jar:$AC_SERVER_HOME/javalib/jdbc6.jar:$AC_SERVER_HOME/javalib/ojdbc8.jar:$AC_SERVER_HOME/javalib/triplea-conn-package.jar:$AC_SERVER_HOME/javalib/triplea-conn.jar:$AC_SERVER_HOME/javalib/slf4j-api.jar:$CLASSPATH
ICU_DATA=$AC_SERVER_HOME/lib
LD_LIBRARY_PATH=$AC_SERVER_HOME/lib:${ODBC_LIB_PATH}:${ODBC_MGR_PATH}:/usr/lib:$AC_JRE_HOME/lib/i386/server:$LD_LIBRARY_PATH
PATH=$AC_SERVER_HOME/bin:$PATH
```

On PROD server pmd11.sh CLASSPATH has not been modified:

```
TMPODIR=$AC_SERVER_HOME/tmp  
AC_ODBC_HOME=$AC_SERVER_HOME/odbc  
XPHOME=$AC_SERVER_HOME/operation  
XPATH=$AC_SERVER_HOME/operation/xprinter  
CLASSPATH=$AC_JRE_HOME/lib/rt.jar:$CLASSPATH  
ICU_DATA=$AC_SERVER_HOME/lib  
LD_LIBRARY_PATH=$AC_SERVER_HOME/lib:${ODBC_LIB_PATH}:${ODBC_MGR_PATH}:/usr/lib:$AC_JRE_HOME/lib/i386/server:$LD_LIBRARY_PATH  
PATH=$AC_SERVER_HOME/bin:$PATH
```

Please adapt the script accordingly, after making a backup of the file, suffixed by .ori.
When changes are done. Stop and restart full actuate server, stop and start also postgresql.

On the Actuate server, you need the jars (Triple-conn.jars, ... those of the Windows\Man
If in UAT it's ok, just take a copy of these jars
So do as in the doc: disk1/documentation\FrontOfficeReporting_InstallationGuide.pdf
→3.5.3 Deployment of jar libraries for e.Report (for Windows and Unix)
>>>>>>>

Export interface rpc invocation

Monday, September 27, 2021 6:18 PM

use directly the financial RPC sel_export_data_from_sp.

Here the customer case:

```
declare @entity dict_t, @format id_t, @lang dict_t, @flag flag_t
select @entity=900 - 'instrument'
select @format=<your format id (select id from format_vw where code = 'CUS_FR_IBAN2')>
select @lang=2 --'fr'
select @flag=1
exec <your financial server>...sel_export_data_from_sp
@entity_dict_id = @entity,
@list_id = NULL,
@list_script = 'portfolio_id.code = "6350035"',
@format_id = @format,
@max_rows_nbr = NULL,
@column_nbr = NULL,
@updstatus_sign = NULL,
@updstatus_val = NULL,
@language_dict_id = @lang,
@use_fmtfilter_f = @flag,
@param1 = 'your param1',
@param2 = 'your param2',
@param3 = 'your param3',
@param4 = 'your param4',
@param5 = 'your param5'
```

From <<http://rd.temenosgroup.com/browse/SUPPORT-2317>>

=====

<http://rd.temenosgroup.com/browse/PMSTA-43166>

1. Login in TA GUI.
2. Create a format with nature as “Export Interface”.
3. Add format elements in the format as required.
4. Add filter in the format.
5. Login to Unix Environemnt.
6. Create a export file in temp directory and define the entity and format which we created in the Export file.
7. Run the below command to export the data.
aaa imp -Uaaa -Paaaaaa -MExpTripleA <test.in> test.out
8. Open the output file and verify , filter not considered in data extraction.

In my Example i created a filter by adding definition “nature_e=2”. The expectation is only Fixed Income instruments should re turn but in this case it extracts all the data.

Test.in
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB3/aaahome> cat test.in
SET DECIMAL,
SET DATAFORMAT DELIMITED
SET SEPARATOR ~
SET QUOTE NONE
SET DATEFORMAT DD-MM-YYYY:HH:II:SS

CMD EXPORT instr_price

FMT HLA_RMT_INSTRPRICE

Test.out
MSG AAAHOME is /oams/CIP_LX_ORA_JB3/aaahome
MSG Executing /oams/CIP_LX_ORA_JB3/aaahome/bin/Linux/aaa_imp64 -Uaaa
REM ICU Time Zone Data Version : 2019a
NULL~T_AI_INDEX_SMI~09-06-2007:00:00~5,368,8~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~06-06-2007:00:00~5,320~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~05-06-2007:00:00~5,251,2~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~04-06-2007:00:00~5,238,5~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~03-06-2007:00:00~5,207,2~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~02-06-2007:00:00~5,150~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~30-05-2007:00:00~5,041,6~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~29-05-2007:00:00~5,132,1~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~28-05-2007:00:00~5,133,1~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~27-05-2007:00:00~5,190~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~26-05-2007:00:00~5,196,7~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL

```

NULL~T_AI_INDEX_SMI~23-05-2007:00:00:00~5,181~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~22-05-2007:00:00:00~5,176,4~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~21-05-2007:00:00:00~5,178,6~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~20-05-2007:00:00:00~5,081~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~16-05-2007:00:00:00~5,157,5~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~15-05-2007:00:00:00~5,141,7~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~14-05-2007:00:00:00~5,134,3~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~13-05-2007:00:00:00~5,084,2~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~12-05-2007:00:00:00~5,042,5~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~09-05-2007:00:00:00~5,004,7~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~07-05-2007:00:00:00~5,016~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~06-05-2007:00:00:00~4,988,4~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~05-05-2007:00:00:00~5,029,6~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~02-05-2007:00:00:00~4,953,5~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~30-04-2007:00:00:00~4,897,6~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~29-04-2007:00:00:00~4,855,1~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~28-04-2007:00:00:00~4,793,3~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~25-04-2007:00:00:00~4,772,3~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
NULL~T_AI_INDEX_SMI~24-04-2007:00:00:00~4,836,1~CHF~T_AI_INSTR_PRICE~NULL~NULL~NULL
=====
```

instr_price.in

```

SET QUOTE '
SET SEPARATOR ;
SET DECIMAL .
SET THOUSAND ,
SET DATAFORMAT DELIMITED
SET DATEFORMAT DD-MM-YYYY
SET HEADER YES
```

```

CMD EXPORT instr_price
ATT 'instr_id.name':<name_t,,20L,INSTR_NAME>
ATT 'instr.code':<code_t,,5L,INSTR_ID>
ATT 'currency.code':<code_t,,5L,CURRENCY>
ATT 'quote_d':<datetime_t,,15R,QUOTE_D>
ATT 'quote_n':<number_t,999999.9999,15R,QUOTE>
ATT 'type.code':<code_t,,5L,TYPE>
ATT 'third.code':<code_t,,5L,PROVIDER>
ATT 'market_third_id.code':<code_t,,5L,MARKET>
SEL 'quote_d' > "01-01-2015"
=====
```

aaa imp -Uaaa -Paaaaaa -MExpTripleA < inst_price.in >inst_price.out

```

W:\TA\develop\triplea_core\arch\win\VS150\BIT32\bin\Debug>aaa_imp.debug.exe -SAAASERVHLAL -Uaaa -Paaaaaa -CCIP_LX_ORA_JB1 -MExpTripleA < W:\TA\develop\triplea_core\msg\instr_price.in
=====
```

Rolit and rolittest

Tuesday, October 26, 2021 5:58 PM

Server Side

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> export ROLIT_PROGRAM=21015
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome>
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> set -o vi
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa ROLIT -Uaaa -Paaaaaaaa -MTripleA
AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_rolit.sh -Uaaa
```

Client Side

```
export ROLITTEST_BIN=rolittest
export ROLIT_PROGRAM=21015
```

```
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa ROLIT -Uaaa -Paaaaaaaa -MTripleA </0120_Cash_Instrument.imp
AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_rolit.sh -Uaaa
SET BUSINESS_ENTITY MASTER
SET QUOTE NONE
SET SEPARATOR ;
SET DECIMAL .
SET THOUSAND ,
SET DATAFORMAT DELIMITED
SET DATEFORMAT DD-MM-YYYY
SET PREFIX DATA DAT
```

REM Are inserted by installation : to be reimported after clean-up

```
SET BUSINESS_ENTITY MASTER
CMD INSUPD instrument
ATT nature_e code denom ref_curr_id.code
SUC 4;EUR;Euro Cash Account;EUR
SUC 4;CHF;CHF Cash account;CHF
SUC 4;USD;USD Cash account;USD
```

If the server is not running and the client is executed,

```
rolitd: 26-10-2021 14:33:21
File: /prod_ref/int/multi-scm/TA/cmake/27.6.0/triplea_core/gateway/rolit_svc.c Line: 448
Message: unable to create (rolit_prog, ROLIT_VERSION) for tcp.
```

gwpack - Build and deployment server details

07 December 2022 14:43

<\\lauwindev1\Integration\Installation> - Contains all the jenkins jobs setup
<http://w7099.temenosgroup.com:8090/repos/Documents/HO>

VM name: VPC-BLR-TAP02

IP - 10.94.20.75

Credentials: windows user

[repos - Revision 6326: / \(temenosgroup.com\)](#) All the gwpack documents

repos - Revision 6326: /

- [ACCESS/](#)
- [AVALOQ-TOOLS/](#)
- [BUILD-TOOLS/](#)
- [BuildExtTT-TOOLS/](#)
- [CHECKRULER-TOOLS/](#)
- [COMMON-TOOLS/](#)
- [COMPARE-TOOLS/](#)
- [CONVERT-MAPS/](#)
- [CommonBuild/](#)
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- [Documentation/](#)
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- [ENV-TOOLS/](#)
- [EXPORT-TOOLS/](#)
- [EZE/](#)
- [ExcelQuery-TOOLS/](#)
- [ExportXLSToCsv/](#)
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- [GATIT - TEST/](#)
- [GWPACK - Talend/](#)
- [GWPACK-TOOLS/](#)
- [GWPACK_BatchControl/](#)
- [GWPACK_ESCROW/](#)
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- [JENKINS/](#)
- [JIRA-EXTRACTOR/](#)
- [MDS-ONLY/](#)
- [MENU-TOOLS/](#)
- [MGO ONLY/](#)
- [Manulife_Temp/](#)
- [OAMS_DOC/](#)
- [POC/](#)
- [PUBLICATOR/](#)
- [PlanningGame/](#)
- [Queue/](#)
- [SCRIPT_TOOLS/](#)
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- [TTI-TOOLS/](#)
- [TTI_TemenosNetworkInstaller/](#)
- [VALIDATION/](#)
- [WMGWPACK/](#)

- [WTX 8.2.0.4 + IF1 - Patches/](#)
- [WTX-PATCH/](#)
- [WTX-TOOLS/](#)
- [WTX_MQ/](#)
- [WTX_SFTP/](#)
- [XML-TOOLS/](#)
- [check/](#)
- [temp/](#)
- [test/](#)

Subscription & maps setups

Wednesday, October 6, 2021 7:14 PM

1. Keep DEVPATH64 set to C:\IBM\WebSphere Transformation Extender 9.0.0. aaa_subd need dll present from this path
 2. Create map ECHO-portfolio with Entity-portfolio, storage - c:/w/TA/develop/gateway/maps/Windows/echo mmc
 3. Create subscription for portfolio. Map ECHO-portfolio
 4. Copy Attrfile.att to map.tx in w:\TA\develop\trianglea_core
 5. Copy Attrfile.att to w:\TA\develop\trianglea_core\gateway
 6. Setup the aaa_subd properties to -Uaaa -Paaaaaa -SAAASERVHLAL -CCIP_LX_ORA_JB3
 7. When the portfolio modification happens, w/TA/develop/gateway/maps/Windows/output.txt file will be created.
 8. Other traces are created in echo.mtr, echo.log

2^NULL^^06/10/2021 17:14:38^NULL^^portfolio^0^NULL^NULL^LAUDI063^3058^c:/w/TA/develop/gateway/maps/Windows/echo.mmc^1^A^0^^0x0000000000000000^100037-02^0^0.000000^20^A^NULL^HLL_Sub_Portfolio^NULL^aaaa^HLL_EXP_PTF^HLL_EXP_PTF:seqno_0^HLL_EXP_PTF:code_`100037-02`^HLL_EXP_PTF:denomination_`100037-02`^HLL_EXP_PTF:currecy_`CHFA`^HLL_EXP_PTF:curreny_denom_`Swiss Franc`^HLL_EXP_PTF:type_`NULL`^HLL_EXP_PTF:type_denom_`NULL`^HLL_EXP_PTF:manager_`RM001`^HLL_EXP_PTF:manager_denom_`Sean Powell`^HLL_EXP_PTF:active_`1`^HLL_EXP_PTF:language_`en`^HLL_EXP_PTF:language_denom_`English`^HLL_EXP_PTF:nature_label_`Standard`^HLL_EXP_PTF:client_`100037`^HLL_EXP_PTF:client_denom_`Ming, Yvonne`^

Common stored procedures from C++

Saturday, October 9, 2021 6:40 PM

```
#EXEC sel_appl_pwd_hist_by_cd ?
#EXEC #AAALOGIN_DB.get_dbservice_by_nm ?
#EXEC sel_appl_pwd_hist_by_cd ?
#EXEC get_databases
#EXEC #AAALOGIN_DB.get_exd_server_connect_by_nm ?
#EXEC #AAALOGIN_DB.get_exd_client_connect_by_cd ?, ?

#EXEC load_meta_dict ?
#EXEC load_meta_dict_for_sql
#EXEC dump_dict_function
#EXEC #AAALOGIN_DB.get_exd_server_connect_by_nm ?
#EXEC #AAALOGIN_DB.chk_login_failed ?, NULL
#EXEC #AAALOGIN_DB.ins_login_failed_by_cd ?, ?
```

User Roles, profiles, privileges in Oracle - password lifetime

Sunday, February 6, 2022 8:08 PM

```
SQL> select * from dba_role_privs;
```

```
SQL> select * from dba_roles;
```

```
SQL> select * from dba_users;
```

```
SQL> select * from dba_profiles;
```

```
SQL> select * from dba_profiles;
```

```
SQL> alter profile default limit password_life_time unlimited;
```

Multi-scm Unix checkout and Build

Sunday, April 3, 2022 6:00 PM

<https://confluence.temenos.com/display/TOOLS/Move+TA+out+of+Synergy>

6. Unix build

Prerequisites

Create `~/.m2/settings.xml` with the contents of [settings_unix.xml](#)
Update accordingly
YOUR_UNIX_LOGIN (2 occurrences)
YOUR_WINDOWS_LOGIN

As `YOUR_UNIX_LOGIN@vmlaulxtools2`:

```
$ export JAVA_HOME=/oams/jdk1.8.0_131
export M2_HOME=~cmsbm/soft/apache-maven-3.2.5
export PATH=$JAVA_HOME/bin:$M2_HOME/bin:$PATH
```

From <<https://confluence.temenos.com/display/TOOLS/Move+TA+out+of+Synergy>>

```
$ mkdir -p /prod_ref/users/$USER/TA/7.1.41 # any empty dir would be fine actually
cd /prod_ref/users/$USER/TA/7.1.41
mvn -U multi-scm:checkout -DworkareaDefinitionUrl=https://lausvn.temenosgroup.com/svn/devel/products/TA/branches/7.1.41/multi-scm/projects.xml
```

From <<https://confluence.temenos.com/display/TOOLS/Move+TA+out+of+Synergy>>

```
$ svn cat https://lausvn.temenosgroup.com/svn/devel/products/TA/branches/7.1.41/multi-scm/projects.xml >../7.1.41.xml
vim ..7.1.41.xml # to remove <platform>win</platform> for triplea_ddl
mvn -U multi-scm:checkout -DworkareaDefinitionUrl=file:///$(dirname $PWD)/7.1.41.xml
```

From <<https://confluence.temenos.com/display/TOOLS/Move+TA+out+of+Synergy>>

```
$ mvn multi-scm:update
```

From <<https://confluence.temenos.com/display/TOOLS/Move+TA+out+of+Synergy>>

UPDATE_STATUS Sample import file

13 September 2023 15:40

```
SET DATAFORMAT DELIMITED
SET SEPARATOR ;
SET QUOTE "
CMD UPDATE_STATUS [35]
ATT code
DAT "PCL_BUY"
FLH
CMD UPDATE_STATUS [35]
ATT code
DAT "PCL_SEL"
FLH
```

From <http://rd.temenosgroup.com/browse/PMSTA-16965?iql=text%20~%20%22UPDATE_STATUS%22>

UTL_FILE Oracle - stored procedure profiling steps

20 September 2023 18:07

```
SQL> alter system set utl_file_dir='/users/generic/aaa/oprof' scope=SPFILE;
```

System altered.

```
SQL> shutdown immediate;
```

Pluggable Database closed.

```
SQL> startup
```

Pluggable Database opened.

```
SQL> exit
```

```
SQL> show parameter utl_file;
```

NAME	TYPE
utl_file_dir	string
/users/generic/aaa/oprof	

OWNER
SYS

DIRECTORY_NAME
HOME_DIR

DIRECTORY_PATH
/users/generic/aaa/oprof
5

ORIGIN_CON_ID

```
SQL> create directory home_dir as '/users/generic/aaa/oprof';  
Directory created.
```

```
SQL> grant read, write on directory home_dir to public;
```

Grant succeeded.

```
SQL> declare  
2 fp utl_file.file_type;  
3 begin  
4 fp := utl_file.fopen('/users/generic/aaa/oprof','lax.txt','w');  
5 utl_file.put_line(fp,'lax dumping');  
6 utl_file.fclose(fp);  
7 end;  
8 /
```

PL/SQL procedure successfully completed.

```
aaa@vmlaulxora1:/users/generic/aaa/oprof> ls -lrt  
total 0  
-rw-r--r-- 1 oracle oinstall 12 Sep 20 13:40 lax.txt  
aaa@vmlaulxora1:/users/generic/aaa/oprof> cat lax.txt  
lax dumping  
=====
```

select * from dba_directories;

OWNER	DIRECTORY_NAME	DIRECTORY_PATH	ORIGIN_CON_ID
SYS	HOME_DIR	/users/generic/aaa/oprof	5
SYS	LOG_DIR	/oams/CIP_LX_ORA_JB1/aaahome/msg/hprof	5
SYS	XYZ	/oams/CIP_LX_ORA_JB1/aaahome	5
SYS	PROFILER_DIR	/oams/oracle/diag/rdbms/tapws/TAPWS/trace	5
SYS	XMLDIR	/oams/oracle/product/12.2.0.1/main/rdbms/xml	1
SYS	XSDDIR	/oams/oracle/product/12.2.0.1/main/rdbms/xml/schema	1
SYS	ORA_DBMS_FCP_LOGDIR	/oams/oracle/product/12.2.0.1/main/cfgtoollogs	1
SYS	ORA_DBMS_FCP_ADMINDIR	/oams/oracle/product/12.2.0.1/main/rdbms/admin	1
SYS	OPATCH_INST_DIR	/oams/oracle/product/12.2.0.1/main/OPatch	1
SYS	ORACLE_OCM_CONFIG_DIR	/oams/oracle/product/12.2.0.1/main/ocr/state	1
SYS	DATA_PUMP_DIR	/oams/oracle/admin/TAPWS/dpdump/05BAA9C3C2B176EDE0639E46140A6157	1
SYS	ORACLE_OCM_CONFIG_DIR2	/oams/oracle/product/12.2.0.1/main/ocr/state	1
SYS	OPATCH_SCRIPT_DIR	/oams/oracle/product/12.2.0.1/main/QOpatch	1
SYS	OPATCH_LOG_DIR	/oams/oracle/product/12.2.0.1/main/rdbms/log	1
SYS	ORACLE_BASE	/oams/oracle	1
SYS	ORACLE_HOME	/oams/oracle/product/12.2.0.1/main	1

```
SQL> begin
 2 DBMS_HPROF.start_profiling (
 3 location => 'HOME_DIR',filename => 'laxprof.txt');
 4 begin aaamaindb.init_exd_position_by_domain(800 ,23 ,NULL ,NULL ,90 ,95 ,0 , '20-09-2022 00:00:00' , '20-09-2023
00:00:00' ,3 ,0 ,0 ,2 ,NULL ,NULL ,0 ,1 ,1 ,0 ,0 ,1 ,NULL ,0 ,NULL ,0 ,120 ,0 ,0 ,0 ,0 );end;
 5 DBMS_HPROF.stop_profiling;
 6 end;
 7 /
```

PL/SQL procedure successfully completed.

```
SQL>1
1 begin
2 DBMS_HPROF.start_profiling (
3 location => 'HOME_DIR',filename => 'laxprof1.txt');
4 begin sel_exd_position_for_histo(800 ,NULL ,90 ,95 ,0 ,0 , '20-09-2000 00:00:00' , '20-09-2023 00:00:00' ,1 ,0 ,0 ,NULL );end;
5 DBMS_HPROF.stop_profiling;
6* end;
SQL>
```

PL/SQL procedure successfully completed.

```
=====
SET SERVEROUTPUT ON
DECLARE
  l_runid  NUMBER;
BEGIN
  l_runid := DBMS_HPROF.analyze (
    location      => 'PROFILER_DIR',
    filename      => 'profiler_del_list_compo.txt',
    run_comment   => 'Test del list compo run.');

  DBMS_OUTPUT.put_line('l_runid=' || l_runid);
END;
```

From <<https://confluence.temenos.com/display/ARCH/Oracle+profiling>>

```
COLUMN runid FORMAT 99999
COLUMN run_timestamp FORMAT A30
COLUMN run_comment FORMAT A50
SELECT runid,
       run_timestamp,
       total_elapsed_time,
       run_comment
FROM   dbmshp_runs
ORDER BY runid;
```

Using the PL/SQL Hierarchical Profiler (oracle.com) - Refer to the link for the detailed profiling report

The SQL script in [Example 15-1](#) wrote this raw profiler output to the file test.trc:

```
P#V PLSHPROF Internal Version 1.0
P#! PL/SQL Timer Started
P#C PLSQL.""."__plsql_vm"
P#X 4
P#C PLSQL.""."__anonymous_block"
P#X 77
P#C PLSQL."HR"."TEST":7."TEST"#980980e97e42f8ec #1
P#X 4
P#C PLSQL."HR"."TEST":7."TEST.FOO"#980980e97e42f8ec #4
P#X 47
P#C SQL."HR"."TEST":7."__static_sql_exec_line6" #6."3r6qf2qhr3c
P#! SELECT COUNT(*) FROM EMPLOYEES
P#X 279
P#R
P#X 58
P#R
P#X 3
P#C PLSQL."HR"."TEST":7."TEST.FOO"#980980e97e42f8ec #4
P#X 4
P#C SQL."HR"."TEST":7."__static_sql_exec_line6" #6."3r6qf2qhr3c
P#! SELECT COUNT(*) FROM EMPLOYEES
P#X 121
P#R
P#X 5
P#R
P#X 2
P#C PLSQL."HR"."TEST":7."TEST.FOO"#980980e97e42f8ec #4
P#X 3
P#C SQL."HR"."TEST":7."__static_sql_exec_line6" #6."3r6qf2qhr3c
P#! SELECT COUNT(*) FROM EMPLOYEES
P#X 117
P#R
```

 Copy

Table 15-1 Raw Profiler Output File Indicators

Indicator	Meaning
P#V	PLSHPROF banner with version number
P#C	Call to a subprogram (call event)
P#R	Return from a subprogram (return event)
P#X	Elapsed time between preceding and following events
P#!	Comment

Call events (P#C) and return events (P#R) are properly nested (like matched parentheses). If an unhandled exception causes a called subprogram to exit, the profiler still reports a matching return event.

Each call event (P#C) entry in the raw profiler output includes this information:

- **Namespace** to which the called subprogram belongs
- **Name of the PL/SQL module** in which the called subprogram is defined
- **Type of the PL/SQL module** in which the called subprogram is defined
- **Name of the called subprogram**

This name might be one of the special function names in [Special Function Names](#).

- Hexadecimal value that represents the hash algorithm of the **signature** of the called subprogram

The DBMS_HPROF.analyze PL/SQL API stores the hash value in a hierarchical profiler table, which allows both you and DBMS_HPROF.analyze to

For example, consider this entry in the preceding example of raw profiler output:

```
.. "HR"."TEST": :7 ."TEST.FOO"#980980e97e42f8ec #4
```

 Copy

The components of the preceding entry have these meanings:

Component	Meaning
PLSQL	PLSQL is the namespace to which the called subprogram belongs.
"HR"."TEST"	HR.TEST is the name of the PL/SQL module in which the called subprogram is defined.
7	7 is the internal enumerator for the module type of HR.TEST. Examples of module types are procedure, package, and package body.
"TEST.FOO"	TEST.FOO is the name of the called subprogram .
#980980e97e42f8ec	#980980e97e42f8ec is a hexadecimal value that represents the hash algorithm of the signature of TEST.FOO.
#4	4 is the line number in the PL/SQL module HR.TEST at which TEST.FOO is defined.

15.3.2 Special Function Names

PL/SQL hierarchical profiler tracks certain operations as if they were functions with the names and namespaces shown in Table 15-2.

Table 15-2 Function Names of Operations that the PL/SQL Hierarchical Profiler Tracks

Tracked Operation	Function Name	Namespace
Call to PL/SQL Virtual Machine	<code>__plsql_vm</code>	PL/SQL
PL/SQL anonymous block	<code>__anonymous_block</code>	PL/SQL
Package initialization block	<code>__pkg_init</code>	PL/SQL
Static SQL statement at line <code>line#</code>	<code>__static_sql_exec_linenumber#</code>	SQL
Dynamic SQL statement at line <code>line#</code>	<code>__dyn_sql_exec_linenumber#</code>	SQL
SQL FETCH statement at line <code>line#</code>	<code>__sql_fetch_linenumber#</code>	SQL

Example 15-3 Invoking DBMS_HPROF.analyze

```
DECLARE
    runid NUMBER;
BEGIN
    runid := DBMS_HPROF.analyze(LOCATION=>'PLSHPROF_DIR',
                                 FILENAME=>'test.trc');
    DBMS_OUTPUT.PUT_LINE('runid = ' || runid);
END;
/
```

 Copy

15.5 plshprof Utility

The `plshprof` command-line utility (located in the directory `$ORACLE_HOME/bin/`) generates simple HTML reports from either one or two raw profiler output files. (For an example of a raw profiler output file, see `test.trc` in [Collecting Profile Data](#).)

You can browse the generated HTML reports in any browser. The browser's navigational capabilities, combined with well chosen links, provide a powerful way to analyze performance of large applications, improve application performance, and lower development costs.

Topics:

- [plshprof Options](#)
- [HTML Report from a Single Raw Profiler Output File](#)
- [HTML Difference Report from Two Raw Profiler Output Files](#)

15.5.1 plshprof Options

The command to run the `plshprof` utility is:

```
plshprof [option...] profiler_output_filename_1 prof
```

 [Copy](#)

Each `option` is one of these:

Option	Description	Default
<code>-skip count</code>	Skips first <code>count</code> calls. Use only with <code>-trace symbol</code> .	0
<code>-collect count</code>	Collects information for <code>count</code> calls. Use only with <code>-trace symbol</code> .	1
<code>-output filename</code>	Specifies name of output file	<code>symbol.html</code> or <code>tracefile1.html</code>
<code>-summary</code>	Prints only elapsed time	None
<code>-trace symbol</code>	Specifies function name of tree root	Not applicable

Suppose that your raw profiler output file, `test.trc`, is in the current directory. You want to analyze and generate HTML reports, and you want the root file of the HTML report to be named `report.html`. Use this command (% is the prompt):

```
% plshprof -output report test.trc
```

 [Copy](#)

15.5.2 HTML Report from a Single Raw Profiler Output File

To generate a PL/SQL hierarchical profiler HTML report from a single raw profiler output file, use these commands:

```
% cd target_directory  
% plshprof -output html_root_filename profiler_output_file
```

 Copy

target_directory is the directory in which you want the HTML files to be created.

html_root_filename is the name of the root HTML file to be created.

profiler_output_filename is the name of a raw profiler output file.

The preceding `plshprof` command generates a set of HTML files. Start browsing them from `html_root_filename.html`.

Topics:

- [First Page of Report](#)
- [Function-Level Reports](#)
- [Understanding PL/SQL Hierarchical Profiler SQL-Level Reports](#)
- [Module-Level Reports](#)
- [Namespace-Level Reports](#)
- [Parents and Children Report for a Function](#)

MS SQL server - lock deadlock queries

21 September 2023 12:12

```
SELECT L.request_session_id AS SPID,
       DB_NAME(L.resource_database_id) AS DatabaseName,
       O.Name AS LockedObjectName,
       P.object_id AS LockedObjectId,
       L.resource_type AS LockedResource,
       L.request_mode AS LockType,
       ST.text AS SqlStatementText,
       ES.login_name AS LoginName,
       ES.host_name AS HostName,
       TST.is_user_transaction as IsUserTransaction,
       AT.name as TransactionName,
       CN.auth_scheme as AuthenticationMethod
  FROM sys.dm_tran_locks L
 JOIN sys.partitions P ON P.hobt_id = L.resource_associated_entity_id
 JOIN sys.objects O ON O.object_id = P.object_id
 JOIN sys.dm_exec_sessions ES ON ES.session_id = L.request_session_id
 JOIN sys.dm_tran_session_transactions TST ON ES.session_id = TST.session_id
 JOIN sys.dm_tran_active_transactions AT ON TST.transaction_id = AT.transaction_id
 JOIN sys.dm_exec_connections CN ON CN.session_id = ES.session_id
      CROSS APPLY sys.dm_exec_sql_text(CN.most_recent_sql_handle) AS ST
 WHERE resource_database_id = db_id()
 ORDER BY L.request_session_id;
```

To select TOP 5 queries text

```
SELECT TOP 5 total_worker_time/execution_count AS [Avg CPU Time],
       SUBSTRING(st.text, (qs.statement_start_offset/2)+1,
       ((CASE qs.statement_end_offset
          WHEN -1 THEN DATALENGTH(st.text)
          ELSE qs.statement_end_offset
         END - qs.statement_start_offset)/2) + 1) AS statement_text
  FROM sys.dm_exec_query_stats AS qs
 CROSS APPLY sys.dm_exec_sql_text(qs.sql_handle) AS st
 ORDER BY total_worker_time/execution_count DESC
```

```
select * from sys.objects;
select * from sys.dm_tran_session_transactions;
select * from sys.dm_exec_connections
```

Executing Fusion of cancelled operation through stored procedure

22 September 2023 14:46

Through the cancelled operation entry in ext_order, get the operation_id. From the below, operation_id=32015. Use the below script to execute the fusion manually.

aaa SQL -Uv_ora_21_1aaa

```
update v_ora_21_1_aaamaindb.ext_order set operation_id=null where id=32015
go
```

```
begin
del_position_by_open_oper_id(32015);
end;
go
```

```
begin
del_balance_pos_by_oo_id(32015);
end;
go
```

```
commit
go
```

```
exit
```

Modified Operation : Changes in different tables

```
select a.status_e,a.* from ext_order a where a.portfolio_id=2001 order by a.last_modif_d desc;
```

Output X Query Result X
SQL | All Rows Fetched: 6 in 0.009 seconds

STATUS_E	ID	NATURE_E	OPERATION_ID	FUNCTION_RESULT_ID	CODE	FUSION_E	INPUT_USER_ID	TYPE_ID	SUBTYPE_ID	MARK
90	32020	2	32014	(null)	HLA-MM-02-OP-180921N	0	2001	(null)	(null)	
90	32019	2	32018	(null)	\$DEL32018	0	1	(null)	(null)	
0	32015	2	(null)	(null)	HLA-MM-01-OPER-01_01	1	2001	(null)	(null)	
0	32013	2	(null)	(null)	HLA-MM-01-OP-180921N	1	2001	(null)	(null)	
0	32010	2	(null)	(null)	HLA-MM-01-OP-180921	1	2001	(null)	(null)	
0	32006	2	(null)	(null)	HLA-MM-01-OPER-01	1	2001	(null)	(null)	

```
select a.open_oper_id, a.close_oper_id,a.fusion_e,a.* from position a where open_oper_id=32014;
select a.fusion_e,a.* from operation a where id=32014;
```

Output X Query Result X
SQL | All Rows Fetched: 4 in 0.009 seconds

OPEN_OPER_ID	CLOSE_OPER_ID	FUSION_E	ID	PORTFOLIO_ID	PORT_POS_SET_ID	INSTR_ID	DEPOSIT_ID	POS_CURRENCY_ID	FI_CURRENCY_ID	PF_CURRENCY_ID
1	32014	32018	1	106011	2001	0	7003	(null)	2	2
2	32014	32014	2	105002	2001	0	7003	(null)	2	2
3	32014	32014	2	105003	2001	0	7003	(null)	2	2
4	32014	(null)	2	105001	2001	0	8001	(null)	2	2

```
select a.fusion_e,a.* from operation a where id=32014;
```

```
select a.fusion_e, a.* from position a where a.fusion_e != 1;
```

Output X Query Result X
SQL | All Rows Fetched: 1 in 0.008 seconds

FUSION_E	ID	CODE	FUSION_E_1	INPUT_USER_ID	TYPE_ID	SUBTYPE_ID	MARKET_THIRD_ID	INTERMED_THIRD_ID	PORTFOLIO_ID	PI
2	32014	HLA-MM-02-OP-180921N	2	2001	(null)	(null)	(null)	(null)	2001	

Deleted Operation: Different tables status before running fusion

```
select a.status_e,a.* from ext_order a where a.portfolio_id=2001 order by a.last_modif_d desc;
```

Script Output x Query Result x

All Rows Fetched: 6 in 0.009 seconds

STATUS_E	ID	NATURE_E	OPERATION_ID	FUNCTION_RESULT_ID	CODE	FUSION_E	INPUT_USER_ID	TYPE_ID	SUBTYPE_ID
1	90 32020	2	32014	(null)	HLA-MM-02-OP-180921N	0	2001 (null)	(null)	
2	90 32019	2	32018	(null)	\$DEL32018	0	1 (null)	(null)	
3	0 32015	2	(null)	(null)	HLA-MM-01-OPER-01_01	1	2001 (null)	(null)	
4	0 32013	2	(null)	(null)	HLA-MM-01-OP-180921N	1	2001 (null)	(null)	
5	0 32010	2	(null)	(null)	HLA-MM-01-OP-180921	1	2001 (null)	(null)	
6	0 32006	2	(null)	(null)	HLA-MM-01-OPER-01	1	2001 (null)	(null)	

```
select a.open_oper_id, a.close_oper_id,a.fusion_e,a.* from position a where open_oper_id=32018;
```

Script Output x Query Result x

All Rows Fetched: 3 in 0.019 seconds

OPEN_OPER_ID	CLOSE_OPER_ID	FUSION_E	ID	PORTFOLIO_ID	PORT_POS_SET_ID	INSTR_ID	DEPOSIT_ID	POS_CURRENCY_ID	FI_CURRENCY_ID	PF_CURR
32018	(null)	1	106015	2001		0	7003 (null)	2	2	2
32018	(null)	2	106013	2001		0	7004 (null)	2	2	2
32018	32018	2	106014	2001		0	7003 (null)	2	2	2

```
select a.fusion_e,a.* from operation a where id=32018;
```

Script Output x Query Result x

All Rows Fetched: 1 in 0.023 seconds

FUSION_E	ID	CODE	FUSION_E_1	INPUT_USER_ID	TYPE_ID	SUBTYPE_ID	MARKET_THIRD_ID	INTERMED_THIRD_ID	PORTFOLIO_ID
2	32018	HLA-MM-01-OP-181121	2	1 (null)	(null)	(null)	(null)	(null)	2001

TWAC Configuration and setup

25 September 2023 15:04

TWAC Configurations

~ In TA Side:

1. Create a file twac.imp in \$AAAHOME directory by using below structure:

```
SET DATAFORMAT DELIMITED
SET SEPARATOR ~
SET QUOTE NONE
SET PREFIX DATA NONE
```

```
CMD INSUPD appl_param
ATT param_name value_n
TWAC_BASE_URI~https://laudevcloud01.temenosgroup.com:10443/twac~
TWAC_ZONE_NAME~CIP_AX_SYB_WAS~
TWAC_API_KEY~c2ce7624-d45f-49b3-a391-44099590794f~
```

2. Change the TWAC_ZONE_NAME to your environment name.

3. Import the file: \$AAAHOME/aaa imp -S PERF_ENV_PMP -U aaa -P aaaaaa -i twac.imp

4. Restart the fin servers.

~ In OCS Side:

1. Stop the OCS Server.

2. Edit the all-in-one.dpi.properties file.

3. Paste the below lines in end of all-in-one.dpi.properties:

```
service.registry.base.uri=https://laudevcloud01.temenosgroup.com:10443/twac
    service.registry.service.zone=PERF_ENV_PMP
    service.registry.api.token=0bdfbe79-42e5-41c6-9e12-13e087b5a6be
    # You can add below your comma-separated list of profiles, example 'autodelete'
    service.registry.profiles
```

4. Save the all-in-one.dpi.properties file.(For existing env just start the servers)

5. Redeploy the OCS Server in the auto mode.

~ In WSC Side:

1. Stop the WSC server.

2. Paste the below lines in install.properties file:

```
dsf.TWAC_BASE_URI=https://laudevcloud01.temenosgroup.com:10443/twac
    dsf.TWAC_ZONE_NAME=PERF_ENV_PMP
    dsf.TWAC_API_TOKEN=0bdfbe79-42e5-41c6-9e12-13e087b5a6be
    # You can add below your comma-separated list of profiles, example 'autodelete'
    dsf.TWAC_PROFILES=
```

3. Save the install.properties file.

4. Open the FOPM.dsf file. (It is in this path wsc/instance/deployments/TCIB.ear/FOPM.war/WEB-INF/FOPM.dsf) --> For existing env change only this and start the wsc server.

5. Replace the existing Global Parameter in the FOPM.dsf file with given below:

You can also update an existing instance by editing the FOPM.dsf file and replace the following global parameters:

```
<GlobalParameter Name="TWAC_BASE_URI" GlobalParameterValue="https://laudevcloud01.temenosgroup.com:10443/twac
eid="E887CA0A32CF8750311012"/>
<GlobalParameter Name="TWAC_ZONE_NAME" GlobalParameterValue="PERF_ENV_PMP" eid="E887CA0A32CF8750311013"/>
<GlobalParameter Name="TWAC_API_TOKEN" GlobalParameterValue="0bdfbe79-42e5-41c6-9e12-13e087b5a6be"
eid="E887CA0A32CF8750311017"/>
<!-- You can add below your comma-separated list of profiles, example 'autodelete' -->
<GlobalParameter Name="TWAC_PROFILES" GlobalParameterValue="" eid="E987CA0A32CF8750311017"/>
```

6. Save the FOPM.dsf file.

7. Redeploy the WSC server in the auto mode.

Note: We can use 'default' (without quotes) as API Token for every service.

tsl Search parameters and repeatability

07 November 2023 14:53

```
submit-bpi-job -t 1800 -D mode=Create -D entity=instrument/portfolio/All -D entityDimCode=<code> -D entityDimE=1/2/99 -w tsl-precomp-search-job.xml
```

Sybase system statistics

22 November 2023 18:18

```
>aaa sql -Uaaa -w3500 <<-END >/output.txt
```

```
declare curs2 cursor for
select dbid,name from master..sysdatabases
where uid != 1 and dbid > 2 and status3 & 256 != 256 and name='aaamaindb'
go
declare @dbname sysname
declare @dbid smallint
declare @sql varchar(2000)
open curs2
fetch curs2 into @dbid,@dbname
while (@@sqlstatus != 2)
begin
set @sql='
select
DataBaseName = "' + @dbname + "' ,
TableName=object_name(ss.id,@dbid),
-- need to use strtobin() due to byte swapping on big endian
ColumnName=col_name(ss.id,hextoint(bintostr(ss.colidarray)),@dbid),
Row_Count=st.rowcnt,
RequestedSteps=convert(int,ss.c5),
ActualSteps=convert(int,ss.c4),
ApproxDistincts=convert(int,round(1/convert(double precision,ss.c15),0)),
DistinctsPerStep=round(convert(int,round(1/convert(double precision,ss.c15),0))/convert(float,convert(int,ss.c4)),0),
Uniqueness=str(1.0/(convert(double precision,ss.c15)*st.rowcnt),12,10),
RangeDensity=str(round(convert(double precision,ss.c2),10),12,10),
TotalDensity=str(round(convert(double precision,ss.c3),10),12,10),
UpdStatsDate=convert(varchar(20),moddate,100),
DaysAgo=datediff(dd,moddate,getdate())
from '+ @dbname+'.sysstatistics ss inner join '+ @dbname+'.systabstats st on ss.id=st.id
where object_name(ss.id,@dbid) not like "%[_]20%"'
and st.rowcnt > 1
and ss.id > 100 and st.id > 100
and ss.formatid=100
and st.indid in (0,1)
and ss.c4 is not null
order by TableName,ColumnName '
exec (@sql)
fetch curs2 into @dbid,@dbname
end
close curs2
deallocate curs2
go
END
```

Postgres restart command

23 November 2023 11:24

```
sudo systemctl restart postgresql-11
```

Connect to SQL Server from command prompt

27 November 2023 12:21

```
val@bngdevlx21.temenosgroup.com:/oams/v_rhel9_mssql/aaa/current> sqlcmd -?
Microsoft (R) SQL Server Command Line Tool
Version 17.10.0001.1 Linux
Copyright (C) 2017 Microsoft Corporation. All rights reserved.
```

```
usage: sqlcmd      [-U login id]      [-P password]
[-S server or Dsn if -D is provided]
[-H hostname]      [-E trusted connection]
[-N Encrypt Connection][-C Trust Server Certificate]
[-d use database name] [-I login timeout]  [-t query timeout]
[-h headers]      [-s colseparator]    [-w screen width]
[-a packetsize]    [-e echo input]     [-I Enable Quoted Identifiers]
[-c cmdend]
[-q "cmdline query"] [-Q "cmdline query" and exit]
[-m errorlevel]    [-V severitylevel]  [-W remove trailing spaces]
[-u unicode output] [-r[0|1] msgs to stderr]
[-i inputfile]     [-o outputfile]
[-k[1|2] remove[replace] control characters]
[-y variable length type display width]
[-Y fixed length type display width]
[-p[1] print statistics[:colon format]]
[-R use client regional setting]
[-K application intent]
[-M multisubnet failover]
[-b On error batch abort]
[-D Dsn flag, indicate -S is Dsn]
[-X[1] disable commands, startup script, environment variables [and exit]]
[-x disable variable substitution]
[-g enable column encryption]
[-G use Azure Active Directory for authentication]
[-? show syntax summary]
```

```
val@bngdevlx21.temenosgroup.com:/oams/v_rhel9_mssql/aaa/current> sqlcmd -Usa -PgeghuG48T -Sbngdevlx21.temenosgroup.com
1> select 1
2> go
```

1

(1 rows affected)

```
1> use V_RHEL9_MSSQL
2> go
Changed database context to 'V_RHEL9_MSSQL'.
```

```
1> select count(*) from aaamaindb.portfolio
2> go
```

4098

(1 rows affected)
1>

PSP Import File Sample

30 November 2023 20:48

```
REM Export Item: entity=psp_position_data sub_entity= parent_entity=NULL pattern='BOS_EXCL_LIAB' business_entity=NULL nature_script=NULL attribute=NULL action=1
SET DECIMAL ,
SET DATAFORMAT DELIMITED
SET SEPARATOR ~
SET QUOTE NONE
SET DATEFORMAT DD-MM-YYYY:HH:II:SS
SET PREFIX DATA NONE

CMD INSUPD psp_position_data
ATT code name denom pps_load_e port_pos_type_id.code port_pos_type_id.attribute_dict_id.entity_dict_id.sqlname_c port_pos_type_id.attribute_dict_id.sqlname_c
cons_portfolio_id.code strat_link_nat_e min_link_priority_n max_link_priority_n fund_split_rule_e risk_exp_f option_risk_rule_e debt_f fusion_rule_e pos_logical_e
fusion_date_rule_e quote_val_rule_id.code exch_val_rule_id.code pos_val_rule_e ext_pos_list_id.code ext_pos_list_id.entity_dict_id.sqlname_c min_status_e max_status_e
BOS_EXCL_LIAB~BOS_EXCL_LIAB~Exclude Non-Inv, Guarantees, Loans from Return Excl Liab Calculation~0~NULL~NULL~NULL~NULL~0~NULL~NULL~0~0~0~0~0~0~NULL~NULL~
~NULL~NULL~90~90~

SET DATAFORMAT DELIMITED
SET DATEFORMAT DD-MM-YYYY
SET PREFIX DATA NONE
SET THOUSAND NONE
SET DECIMAL .
SET SEPARATOR ;

CMD INSUPD ext_ret_analysis portfolio
ATT object position_data_id.code perf_attrib_return_e frequency_e currency initial_d initial_market_val_m final_d final_market_val_m flows_m return_n return_gross_n
entity_dict_id.sqlname_c

1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2010;0.78;31/01/2011;0.78;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2011;0.78;28/02/2011;0.79;0;1.28205128205101;1.28205128205101;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;28/02/2011;0.79;31/03/2011;0.79;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2011;0.79;30/04/2011;0.81;0;2.53164556962;2.53164556962;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2011;0.81;31/05/2011;0.81;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2011;0.81;30/06/2011;0.81;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2011;0.81;31/07/2011;0.83;0;2.46913580246899;2.46913580246899;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2011;0.83;31/08/2011;0.83;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2011;0.83;30/09/2011;0.77;0;-7.2289156626506;-7.2289156626506;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2011;0.77;31/10/2011;0.8;0;3.896103896104;3.896103896104;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2011;0.8;30/11/2011;0.77;0;-3.75;-3.75;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2011;0.77;31/12/2011;0.77;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2011;0.77;31/01/2012;0.8;0;3.896103896104;3.896103896104;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2012;0.8;29/02/2012;0.8;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;29/02/2012;0.8;31/03/2012;0.8;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2012;0.8;30/04/2012;0.81;0;1.25;1.25;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2012;0.81;31/05/2012;1.08;-2077;256449.382716049;256449.382716049;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2012;1.08;30/06/2012;1.09;0;0.92592592595997;0.92592592595997;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2012;1.09;31/07/2012;1.1;0;0.917431192660989;0.917431192660989;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2012;1.1;31/08/2012;1.1;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2012;1.1;30/09/2012;1.12;0;1.81818181818201;1.81818181818201;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2012;1.12;31/10/2012;0.88;-1402;125146.428571429;125146.428571429;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2012;0.88;30/11/2012;0.88;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2012;0.88;31/12/2012;0.88;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2012;0.88;31/01/2013;0.87;0;-1.1363636363636;-1.1363636363636;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2013;0.87;28/02/2013;0.87;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;28/02/2013;0.87;31/03/2013;0.86;0;-1.1494252873563;-1.1494252873563;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2013;0.86;30/04/2013;0.91;-1770;205861.627906977;205861.627906977;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2013;0.91;31/05/2013;6306.81;0;692956.043956044;692956.043956044;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2013;6306.81;30/06/2013;6288.15;0;-0.295870654102504;-0.295870654102504;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2013;6288.15;31/07/2013;0.89;-6279;-0.132630423892499;-0.132630423892499;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2013;0.89;31/08/2013;0.88;0;-1.123595505618;-1.123595505618;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2013;0.88;30/09/2013;0.1;0;-88.6363636363636;-88.6363636363636;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2013;0.1;31/10/2013;2569.82;-2099;4668710;4668710;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2013;2569.82;30/11/2013;0.32;-2613;1.69077989898101;1.69077989898101;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2013;0.32;31/12/2013;0.32;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2013;0.32;31/01/2014;0.32;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2014;0.32;28/02/2014;0.32;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;28/02/2014;0.32;31/03/2014;0.32;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2014;0.32;30/04/2014;0.3;-2280;712481.25;712481.25;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2014;0.3;31/05/2014;2849.65;0;949783.33333333;949783.33333333;portfolio
```

1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2014;2849.65;30/06/2014;2863.36;0;0.481111715474003;0.481111715474003;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2014;2863.36;31/07/2014;2871.2;0;0.273804202056005;0.273804202056005;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2014;2871.2;31/08/2014;2863.87;0;-0.255293953747604;-0.255293953747604;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2014;2863.87;30/09/2014;0.11;-2852;-0.400507006253803;-0.400507006253803;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2014;0.11;31/10/2014;2167.3;-1711;3525718.18181818;3525718.18181818;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2014;2167.3;30/11/2014;0.06;-2137;-1.3865177871084;-1.3865177871084;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2014;0.06;31/12/2014;0.06;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2014;0.06;31/01/2015;0.05;0;-16.66666666666667;-16.66666666666667;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2015;0.05;28/02/2015;0.05;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;28/02/2015;0.05;31/03/2015;0.05;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2015;0.05;30/04/2015;0.1;-1168;2335480;2335480;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2015;0.1;31/05/2015;0.24;-1503;1503540;1503540;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2015;0.24;30/06/2015;0.24;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2015;0.24;31/07/2015;0.24;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2015;0.24;31/08/2015;0.23;0;-4.1666666666667;-4.1666666666667;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2015;0.23;30/09/2015;0.23;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2015;0.23;31/10/2015;0.19;-891;387243.47826087;387243.47826087;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2015;0.19;30/11/2015;1113.64;0;586026.315789474;586026.315789474;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2015;1113.64;31/12/2015;1113.68;0;0.00359182500599964;0.00359182500599964;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2015;1113.68;31/01/2016;1103.61;0;-0.904209467710704;-0.904209467710704;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2016;1103.61;29/02/2016;0.06;-1106;0.241933291652008;0.241933291652008;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;29/02/2016;0.06;31/03/2016;0.07;0;16.666666666667;16.666666666667;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2016;0.07;30/04/2016;0.07;-247;353142.857142857;353142.857142857;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2016;0.07;31/05/2016;306.86;0;438271.428571429;438271.428571429;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2016;306.86;30/06/2016;368.1;-312;121.648308674966;121.648308674966;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2016;368.1;31/07/2016;448.09;-366;121.271393643032;121.271393643032;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2016;448.09;31/08/2016;443.15;0;-1.1024570956727;-1.1024570956727;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2016;443.15;30/09/2016;442.43;0;-0.162473203204305;-0.162473203204305;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2016;442.43;31/10/2016;647.16;-436;144.768663969441;144.768663969441;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2016;647.16;30/11/2016;0.05;-647;0.00772606465200276;0.00772606465200276;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2016;0.05;31/12/2016;0.05;-807;1614580;1614580;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/12/2016;0.05;31/01/2017;0.05;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/01/2017;0.05;28/02/2017;0.05;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;28/02/2017;0.05;31/03/2017;0.05;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/03/2017;0.05;30/04/2017;0;-493;985620;985620;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/04/2017;0;31/05/2017;0;-618;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/05/2017;0;30/06/2017;0;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/06/2017;0;31/07/2017;0;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/07/2017;0;31/08/2017;0;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/08/2017;0;30/09/2017;0;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/09/2017;0;31/10/2017;392.45;0;0;0;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;31/10/2017;392.45;30/11/2017;0;-378;-3.7558924703784;-3.7558924703784;portfolio
1000100319-1;BOS_EXCL_LIAB;0;4;USD;30/11/2017;0;31/12/2017;0;-315;0;0;portfolio

Oracle Global Temporary Tables

01 December 2023 11:38

<https://oracle-base.com/articles/misc/temporary-tables>

Miscellaneous Features

- If the TRUNCATE statement is issued against a temporary table, only the session specific data is truncated. There is no affect on the data of other sessions.
- Data in temporary tables is stored in temp segments in the temp tablespace.
- Data in temporary tables is automatically deleted at the end of the database session, even if it ends abnormally.
- Indexes can be created on temporary tables. The content of the index and the scope of the index is the same as the database session.
- Views can be created against temporary tables and combinations of temporary and permanent tables.
- Temporary tables can have triggers associated with them.
- Export and Import utilities can be used to transfer the table definitions, but no data rows are processed.
- Statistics on temporary tables are common to all sessions. Oracle 12c allows session specific statistics.
- There are a number of restrictions related to temporary tables but these are version specific.

Private Temporary Tables (18c+)

A new variation of temporary tables has been introduced in Oracle 18c. A private temporary table is a memory-based temporary table that is dropped at the end of the session or transaction depending on the setup. You can read more about them here.

- Private Temporary Tables in Oracle Database 18c

For more information see:

- Creating a Temporary Table
- CREATE TABLE
- Private Temporary Tables in Oracle Database 18c
- Temporary Undo in Oracle Database 12c Release 1 (12.1)
- Session Sequences in Oracle Database 12c Release 1 (12.1)
- Session-Private Statistics for Global Temporary Tables in Oracle Database 12c Release 1 (12.1)
- Temporary Undo for Global Temporary Tables (GTTs) in Oracle 12c
- Global Temporary Tables (GTT) in Oracle

```
DROP TABLE my_temp_table PURGE;

-- Create GTT.
CREATE GLOBAL TEMPORARY TABLE my_temp_table (
    id      NUMBER,
    description  VARCHAR2(20)
)
ON COMMIT PRESERVE ROWS;

SET AUTOTRACE ON STATISTICS;

-- Populate GTT.
INSERT INTO my_temp_table
WITH data AS (
    SELECT 1 AS id
    FROM dual
    CONNECT BY level < 10000
)
SELECT rownum, TO_CHAR(rownum)
FROM data a, data b
WHERE rownum <= 1000000;

1000000 rows created.

Statistics
-----
   45 recursive calls
 15333 db block gets
 2381 consistent gets
   16 physical reads
2944180 redo size
   862 bytes sent via SQL*Net to client
   987 bytes received via SQL*Net from client
     3 SQL*Net roundtrips to/from client
     5 sorts (memory)
     0 sorts (disk)
1000000 rows processed
```

Split and Retry feature in ocs

05 December 2023 18:42

```
submit-bpi-job tsl-precomp-fin-function-job.xml -DprecompJobName=PCK_DS_VALUATION -DentityDimCode=T_AI_BASIC_LIST_SMAL -DentityDimE=2 -DspliRetryThreshold=50
```

TAPWeb_TSL_OperatingGuide. The new chapter 6.3 now describes this feature.

From <<http://rd.temenosgroup.com/browse/OCS-42167>>

The screenshot shows the TEMENOS JobLauncher interface. At the top, there's a navigation bar with links like Portfolio Analysis, Client Data, Tasks & Contacts, Admin (which is selected), and Logout. Below the navigation bar, there are tabs for Log, Shell, Monitoring, Scheduler, and JobLauncher (which is selected). A sub-menu for 'Failed instances' is open. The main area displays two sections: 'Job Instance Details' and 'Step Statistics'.
Job Instance Details: This section shows details for a failed job instance. The 'Name' is 'jar:file:/W:/EDSW/7.0.0/jetty/temp/ocs-bootstrap-ear-cache/tsl-config.jar!/META-INF/batch/common/tsl-precomp-entity-job.xml'. The 'Summary' is 'Precomp Entity Job on instrument entity with code PCK_DS_ALL_INSTR and dimension 2'. Other fields include 'Type' (tsl-precomp-entity), 'start_time_d' (Mar 21, 2013 5:21:28 PM), 'end_time_d' (Mar 21, 2013 5:22:12 PM), 'id' (2000010262), 'status_c' (failed), and 'owner_c' (aaa:manager/T_AI_Manager2).
Parameters: This section shows parameters for the job. There is one parameter listed: 'entity' with value 'instrument', 'entityDimCode' with value 'PCK_DS_ALL_INSTR', and 'entityDimE' with value '2'.
Step Statistics: This section displays a table of execution times for various steps. The columns are Step Name, Average time, Max time, Min time, Total time, Num executed, Num failed, and Standard Deviation. The data is as follows:

Step Name	Average time	Max time	Min time	Total time	Num executed	Num failed	Standard Deviation
tsl:exec-parallel-jobs	685ms	2s 14ms	124ms		112	0	408.71
BPI:DomainLoader[spring.tsfcPrecompEntityDomainLoader]	907ms	907ms	907ms		1	0	0.00
BPI:DataSlicer[spring.tsfcPrecompEntityDataSlicerJob]	233ms	233ms	233ms		1	0	0.00
tsl:exec-sequential-jobs	827ms	827ms	827ms		1	1	0.00
tsl:post-global	233ms	233ms	233ms		1	1	0.00
tsl:post-parallel-jobs	360ms	360ms	360ms		1	0	0.00

Through the following otf-shell command:

```
submit-bpi-job tsl-precomp-entity-job.xml -D failedJobId=2000010262
```

As well, there is a possibility to launch a job when a failure occurs with the automatic relaunch feature. This can only be done by adding the optional argument splitRetryThreshold at the oftshell submit-bpi-job command. The value of the splitRetryThreshold is compared to the number of failures multiplied by the chunk size. If, in the "post job" step of the job, this threshold is not reached, the framework will automatically launch a new job in the split and retry mode.

Example:

```
submit-bpi-job -D entity=portfolio -D entityDimCode=PCK_DS_ALL_ACT_PTF -D entityDimE=2 -D splitRetryThreshold=500 tsl-precomp-entity-job.xml
```

From <<http://rd.temenosgroup.com/browse/OCS-42167>>

Git error - Resolving OpenSSL Error When Using HTTPS for Git Operations

18 December 2023 14:45

Subject: RE: Resolving OpenSSL Error When Using HTTPS for Git Operations

Hello Team

I hope this message finds you well. We want to inform you about a recent update in git that may affect your Git operations. Please take a moment to read the following information and follow the provided solution if you encounter a specific error.

Update Details:

Git Version: Updated to version 2.42.0.windows.2

Problem: When attempting to clone, pull, or push a Git repository over HTTPS, you may encounter the following error message:

OpenSSL/3.1.2: error:0A000152:SSL routines::unsafe legacy renegotiation disabled

Solution: To resolve this error and enable secure Git operations over HTTPS, follow these steps:

1. Open Git Bash with Local Administrator privileges.
2. Execute the following command:

```
git config --system --unset http.sslbackend  
git config --system --unset http.sslcainfo
```

By running this command, you will unset the `http.sslbackend` configuration at the system level, which should resolve the SSL-related error and allow you to use HTTPS for your Git operations securely.

Please feel free to reach out if you have any questions or need further assistance.

More info :- <https://confluence.temenos.com/display/TOOLS/Git+Client+and+TortoiseGit+Installation+on+Windows>

Import Error for Synonyms

03 January 2024 12:13

This is the error from output_processed/20200218_181040_00032_Fi-BatchControl-no_output.output:

ERR 60 file <stdin>, line 12: This codification does not guarantee synonym uniqueness. Synonym cannot be used as identifier

Sample xml:

```
<Bond>
<ns2:code>7380116</ns2:code>
<ns2:synonym>
<ns2:code>7380116</ns2:code>
<ns2:codification>BKOFF_CODIF</ns2:codification>
</ns2:synonym>
<ns2:synonym>
<ns2:code>912796SC4060</ns2:code>
<ns2:codification>CUSIP</ns2:codification>
</ns2:synonym>
<active>true</active>
</Bond>
```

Resolution:

Update the \$GWPACK_HOME/config/Active_Global_Set_Lines.txt file and change 'yes' to 'no'

From <<http://rd.temenosgroup.com/browse/CRM-370>>

Switching off the Auto set codification will make it such that you will never have a SET CODIFICATION statement at the beginning of the file. That also means that no other interfaces (data source etc) must import data into TAP via GWPack, and try to do so by using a different synonym (Ticker etc) as ID.

Also note that the mechanism for those "automatic" SET CODIFICATION is strange from a logical point of view, but it works. If you provide a financial instrument, and within its data you provide an ISIN synonym, then a WKN synonym, GWPack will precede the DAT lines by a SET CODIFICATION <entity you import> <codification of first synonym found>. So in this case "SET CODIFICATION ISIN". That does not make any sense whatsoever since providing synonyms as part of the data is nothing else but saying "In ISIN terms, this instrument is called US28829779".

Nevertheless the mechanism makes it such that, as an external data provider you can update instruments and make sure they are identified by a unique ISIN code if you provide the ISIN synonym as part of the data.

This constraint is derived from the TAP online import module: If you force a SET CODIFICATION <entity you import> <other codification for which no synonym is provided in import data file> at the beginning of the import file, you end up with an error "Invalid parameter". For me this does not make any sense. The fact of providing synonym data for an entity should not have a repercussion on which codification can be set.

From <<http://rd.temenosgroup.com/browse/TTI-4650?iqi=text%20~%20does%20not%20guarantee%20synonym%20uniqueness%22>>

TAP TIMEOUT Parameters

03 January 2024 13:08

1. GUI_SESSION_TIMEOUT
2. GUI_EXIT_TIMEOUT
3. AAAXCONTIMEOUT
4. AAAOPTITIMEOUT
5. AAAHTTPCLIENTTIMEOUT
6. AAAAUTENTICATIONHTTPCLIENTTIMEOUT
7. DEF_FUSSYNC_TIMEOUT
8. AAA CONNECTION_POOL_IDLE_TIMEOUT
9. PACKAGE_GENERATION_TIMEOUT
10. DEF_FUSSYNC_TIMEOUT
11. AAATIMEOUT
12. AAARPCTIMEOUTDISPATCHERNOTIFICATION
13. AAARPCTIMEOUTDONEFUSION
14. AAASAFESHUTDOWNTIMEOUTSEC
15. AAATWACLIENTREQUESTTIMEOUT

UTP & Transact artifactory

03 January 2024 16:05

[Index of /repositories/t24-releases/com/temenos/technology/integrationframework/adapters/iib/IIBAdapter \(temenosgroup.com\)](#)

<https://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/>

Sybase - monitoring system parameters and configuration

15 January 2024 16:21

The screenshot shows a Sybase ISQL-Plus interface. At the top, it displays 'Database Connection' and 'Sucky Database'. Below that, there are two tabs: 'D_SYB_22_1' and 'aaamaindb'. The main area contains the following SQL code:

```
1 use aaamaindb;
2 sp_helpconfig 'number of open indexes';
3 sp_configure 'number of open indexes', 3000;
```

Below the code, the status '2 / 40 [54] INS' is shown. A results grid follows, with the first row highlighted in blue:

*	Minimum Value	Maximum Value	Default Value	Current Value	Memory Used	Unit	Type
1	100	2147483647	500	3000	10124	number	dynamic

If the default value of **number of open indexes** is insufficient, SAP ASE displays a message after trying to reuse active index descriptors, and you must adjust this value.

1. Use **sp_countmetadata** to find the total number of index metadata descriptors:
`sp_countmetadata "open indexes"`

The best time to run **sp_countmetadata** is when there is little activity in the server. Running **sp_countmetadata** during a peak time can cause contention with other processes. Suppose SAP ASE reports the following information:

There are 698 user indexes in all database(s), requiring 286.289 Kbytes of memory. The 'open indexes' configuration parameter is currently set to 500.

2. Configure the **number of open indexes** parameter to 698:

`sp_configure "number of open indexes", 698`

This new configuration is only a starting point; base the ideal size on the number of active index metadata cache descriptors, not the total number of indexes.

3. During a peak period, find the number of active index metadata descriptors:

`sp_monitorconfig "open indexes"`

Usage information at date and time: Apr 22 2002 2:49PM.

Name	Num_free	Num_active	Pct_act	Max_Used
Reuse_cnt	Instance_Name			

number of open	182	516	73.92	590
0	NULL			

In this example, 590 is the maximum number of index descriptors that have been used since the server was last started.

See **sp_monitorconfig** in the Reference Manual: Procedures.

4. Configure the **number of open indexes** configuration parameter to 590, plus additional space for 10 percent more (59), for a total of 649:

`sp_configure "number of open indexes", 649`

If there is a lot of activity on the server, for example, if tables are being added or dropped, periodically run **sp_monitorconfig**. Reset the cache size as the number of active descriptors changes.

From <<https://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc31654.1600/doc/html/san1360629133159.html>>

/oams/d_syb_22_1/aaa/current/msg->isql -Usa -Psybase

1> **sp_countmetadata "open partitions"**

2> go

There are 2420 user partitions in all database(s), requiring 3869 Kbytes of memory. The 'open partitions' configuration parameter is currently set to 500.

(return status = 0)

1> **sp_monitorconfig "open partitions"**

2> go

Usage information at date and time: Jan 16 2024 5:33PM.

Name	Num_free	Num_active	Pct_act
Max_Used	Reuse_cnt	Instance_Name	

number of open partitions	85	415	83.00
500	4705	NULL	

```
(1 row affected)
(return status = 0)
1> sp_configure "number of open partitions", 1000
2> go
Parameter Name      Default   Memory Used  Config Value
Run Value   Unit  Type
-----
-----
```

number of open partitions	500	1587	1000
	1000	number	dynamic

```
(1 row affected)
Configuration option changed. ASE need not be rebooted since the option is
dynamic.
Changing the value of 'number of open partitions' to '1000' increases the amount
of memory ASE uses by 830 K.
(return status = 0)
1> sp_monitorconfig "open partitions"
2> go
Usage information at date and time: Jan 16 2024  5:44PM.
```

```
Name          Num_free  Num_active Pct_act
Max_Used    Reuse_cnt Instance_Name
-----
-----
```

number of open partitions	585	415	41.50
500	4705	NULL	

```
(1 row affected)
(return status = 0)
1>
```

Starting finserver issue in sybase openserver

16 January 2024 14:11

/oams/d_syb_22_1/aaa/current->/oams/d_syb_22_1/aaa/current/bin/AIX/aaa_srv64 -Ud_syb_22_1aaa -SD_SYB_22_1_S1

- Financial Server Start R27.0.30 2023-Dec-14 13:29:34 (AIX64 Debug) c82f394
- Server Connections Initialization... ok
- SQL Server Connection & Dialog (S_16K_SP04PL01_HF2_UNI / aaalogindb)... ok
- Redirecting SQL Server Connection & Dialog (S_16K_SP04PL01_HF2_UNI / aaalogindb)... ok
- Meta Dictionary Load... ok
- Special Tables Load... ok
- Server Version Initialization... ok
- Log File Initialization (/tmp/D_SYB_22_1_S1.log)... ok
- Handlers Initialization... ok
- Server Initialization (name:D_SYB_22_1_S1)... ok
- Callback Initialization... ok
- Check for new optimization... ok
- ICU Time Zone Data Version : 2019a
- Sybase Server starting... ok
- Financial Server Started (address: D_SYB_22_1_S1)

START COMPLETED

Migration Steps from Sybase or Oracle source environment to MSSQL

18 January 2024 10:24

```
export SOURCE_AAAHOME  
export AAASOURCERDBMS  
export AAASOURCE_DS  
export TARGET_AAAHOME  
export AAATARGETRDBMS  
export AAATARGET_DS
```

Migration

SYBASE TO ORACLE / MSSQL

To Perform migration, follow below steps.

1. Prerequisite is source env is ready with upgraded TA without any test data related error.
Prepare Source Environment.
 2. Create below folders inside \$AAAHOME
 - mkdir -p \$AAAHOME/source_env
cd \$AAAHOME/source_env
 - mkdir -p ddl/md/
 - mkdir -p ddl/md/custo ddl/md/ds ddl/md(mb ddl/md/usr
 - mkdir -p ddl/src/
 - mkdir -p install/data.usr/
 - mkdir -p config
 1. Copy required file from respective Directory, the one already created in above step.

- cp -rf ../*ddl/md/custo/* ddl/md/custo/.
 - cp -rf ../*ddl/md/ds/* ddl/md/ds/.
 - cp -rf ../*ddl/md/mb/* ddl/md/mb/.
 - cp -rf ../*ddl/md/usr/* ddl/md/usr/
 - cp -rf ../*ddl/src/*usr* ddl/src/.
 - cp ../*install/*keep_files.usr.cfg install/*keep_files.usr.cfg
 - cp ../*install/*aaa_install.cfg install/*aaa_install.cfg
 - cp -rf ../*config/* config/.

2. Zip the created directory(source_env) and transfer it to target environment.

 - tar source_env.tar source_env
 - scp source_env.tar user@host:\$AAAHOME/.

Prepare Target Environment

1. Clear \$AAAHOME and Download the "distribution_aaa_Linux.tar.gz"
 - wget --no-check-certificate --user= --ask-password https://wealth.temenosgroup.com/delivery/incoming_packages/TA/XXXXXX/disk1/distribution/distribution_aaa_Linux.tar.gz
 2. Recreate PDBS by connecting to solplus

Recreate Database by connecting to ssMS

1. Extract the distribution and run below command to get aaahome file structure and some required soft-links
 - ./install_aaa_files.sh \$AAAHOME/distribution \$AAAHOME no_bck ORACLE 2>&1;
 2. Edit \$AAAHOME/install/aaa_install.cfg file according to target Env by comparing old .cfg file.
 3. Make sure source_env/config/pass_store.properties has source env aaa passwprd is in decrypted form
 4. Make sure \$AAAHOME/config/pass_store.properties has target env aaa passwprd is in decrypted form
 5. Create Interfaces file inside open_clnt
 - vi \$AAAHOME/open_client/internaces
SYB_SP03PL08 UNI (Dataserver)

master tcp ether laulpar06.temenosgroup.com(host) 20000(Syase port)
queru tcp ether laulpar06.temenosgroup.com 20000

1. Export open_clnt variable in target environment
 - export SYBASE=\$AAAHOME/open_client
 2. Now run the main migration command with correct source aaa password.
 - nohup ./aaa_install.sh manager V_MIG_231_1 all /oams/v_mig_231_1/aaa/current/source_env v_syb_231_2aaav_syb_231_2aaa &

```
/opt/mssql-tools/bin/sqlcmd -S bngtaplx2.temenosgroup.com -U SA -P 000Temenos -C -i createdb.sql
```

```
val@bnxtaplx2.temenosgroup.com:/oams/v_mssql_lx> cat createdb.sql
sp_configure 'contained database authentication', 1;
go
RECONFIGURE;
go
select convert(varchar(30), name) as db_name, convert(varchar(50), collation_name) as db_collation from sys.databases
go
CREATE DATABASE [V_MSSQL_LX]
CONTAINMENT = PARTIAL
```

```

ON PRIMARY
( NAME      = 'V_MSSQL_LX',
  FILENAME  = '/oams/v_mssql_lx/dbdevice/HEMK_MSS.mdf',
  SIZE      = 512000KB,
  MAXSIZE   = UNLIMITED,
  FILEGROWTH = 20480KB
)
LOG ON
( NAME      = 'log1',
  FILENAME  = '/oams/v_mssql_lx/dbdevice/log.ldf',
  SIZE      = 512000KB,
  MAXSIZE   = 20GB,
  FILEGROWTH = 512000KB
)
COLLATE Latin1_General_100_BIN2_UTF8;
go

ALTER DATABASE [V_MSSQL_LX] SET READ_COMMITTED_SNAPSHOT ON;
go

use V_MSSQL_LX
go
select convert(varchar(30), name) as db_name, convert(varchar(50), collation_name) as db_collation from sys.databases
go

val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx> cat dropdb.sql
ALTER DATABASE V_MSSQL_LX SET SINGLE_USER WITH ROLLBACK IMMEDIATE;
go
DROP DATABASE IF EXISTS V_MSSQL_LX
go
sp_configure 'contained database authentication', 1;
go
RECONFIGURE;
go

val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx> cat odbc.ini
[V_MSSQL_LX]
Description=Microsoft ODBC Driver 17 for SQL Server
Driver=/opt/microsoft/msodbcsql17/lib64/libmsodbcsql-17.10.so.5.1
Server=tcp:bngtapi2.temenosgroup.com,1433
Database=V_MSSQL_LX

```

MSSQL Query Syntax examples

20 January 2024 17:34

```
ENABLE TRIGGER { [ schema_name . ] trigger_name [ ,...n ] | ALL } ON { object_name | DATABASE | ALL SERVER }[;]
```

```
DISABLE TRIGGER { [ schema_name . ] trigger_name [ ,...n ] | ALL } ON { object_name | DATABASE | ALL SERVER }[;]
```

From <<https://learn.microsoft.com/en-us/sql/t-sql/statements/disable-trigger-transact-sql?view=sql-server-ver16>>

```
BULK INSERT { database_name.schema_name.table_or_view_name | schema_name.table_or_view_name | table_or_view_name } FROM 'data_file' [ WITH( [ , ]  
BATCHSIZE = batch_size ) [ , ] CHECK_CONSTRAINTS ] [ , ] CODEPAGE = { 'ACP' | 'OEM' | 'RAW' | 'code_page' } [ , ] DATAFILETYPE = { 'char' | 'native' |  
'widechar' | 'widenedative' } [ , ] DATA_SOURCE = 'data_source_name' [ , ] ERRORFILE = 'file_name' [ , ] ERRORFILE_DATA_SOURCE =  
'errorfile_data_source_name' [ , ] FIRSTROW = first_row [ , ] FIRE_TRIGGERS ] [ , ] FORMATFILE_DATA_SOURCE = 'data_source_name' [ , ]  
KEEPIDENTITY ] [ , ] KEEPNULLS ] [ , ] KILOBYTES_PER_BATCH = kilobytes_per_batch [ , ] LASTROW = last_row [ , ] MAXERRORS = max_errors ] [ , ]  
ORDER ( { column [ ASC | DESC ] [ ,...n ] } ) [ , ] ROWS_PER_BATCH = rows_per_batch [ , ] ROWTERMINATOR = 'row_terminator' ] [ , ] TABLOCK -- input file  
format options [ , ] FORMAT = 'CSV' [ , ] FIELDQUOTE = 'quote_characters' [ , ] FORMATFILE = 'format_file_path' [ , ] FIELDTERMINATOR = 'field_terminator'  
[ , ] ROWTERMINATOR = 'row_terminator' ) )
```

From <<https://learn.microsoft.com/en-us/sql/t-sql/statements/bulk-insert-transact-sql?view=sql-server-ver16>>

```
[ WITH <common_table_expression> [ ,...n ] ]  
MERGE  
[ TOP ( expression ) [ PERCENT ] ]  
[ INTO ] <target_table> [ WITH ( <merge_hint> ) ] [ [ AS ] table_alias ]  
USING <table_source> [ [ AS ] table_alias ]  
ON <merge_search_condition>  
[ WHEN MATCHED [ AND <clause_search_condition> ]  
    THEN <merge_matched> ] [ ...n ]  
[ WHEN NOT MATCHED [ BY TARGET ] [ AND <clause_search_condition> ]  
    THEN <merge_not_matched> ]  
[ WHEN NOT MATCHED BY SOURCE [ AND <clause_search_condition> ]  
    THEN <merge_matched> ] [ ...n ]  
[ <output_clause> ]  
[ OPTION ( <query_hint> [ ,...n ] ) ]  
;
```

```
CREATE TABLE Production.UpdatedInventory (  
    ProductID INT NOT NULL,  
    LocationID INT,  
    NewQty INT,  
    PreviousQty INT,  
    CONSTRAINT PK_Inventory PRIMARY KEY CLUSTERED (  
        ProductID,  
        LocationID  
    )  
);  
GO
```

```

INSERT INTO Production.UpdatedInventory
SELECT ProductID, LocationID, NewQty, PreviousQty
FROM (
    MERGE Production.ProductInventory AS pi
    USING (
        SELECT ProductID, SUM(OrderQty)
        FROM Sales.SalesOrderDetail AS sod
        INNER JOIN Sales.SalesOrderHeader AS soh
            ON sod.SalesOrderID = soh.SalesOrderID
            AND soh.OrderDate BETWEEN '20030701'
                AND '20030731'
        GROUP BY ProductID
    ) AS src(ProductID, OrderQty)
    ON pi.ProductID = src.ProductID
WHEN MATCHED
    AND pi.Quantity - src.OrderQty >= 0
    THEN
        UPDATE SET pi.Quantity = pi.Quantity - src.OrderQty
WHEN MATCHED
    AND pi.Quantity - src.OrderQty <= 0
    THEN
        DELETE
OUTPUT $action,
    Inserted.ProductID,
    Inserted.LocationID,
    Inserted.Quantity AS NewQty,
    Deleted.Quantity AS PreviousQty
) AS Changes(Action, ProductID, LocationID, NewQty, PreviousQty)
WHERE Action = 'UPDATE';
GO

```

```

UPDATE STATISTICS table_or_indexed_view_name
[
{
    { index_or_statistics__name }
    | ( { index_or_statistics_name } [ ,...n ] )
}
]
[ WITH
[
    FULLSCAN
    [ [ , ] PERSIST_SAMPLE_PERCENT = { ON | OFF } ]
    | SAMPLE number { PERCENT | ROWS }
    [ [ , ] PERSIST_SAMPLE_PERCENT = { ON | OFF } ]
    | RESAMPLE
    [ ON PARTITIONS ( { <partition_number> | <range> } [ , ...n ] ) ]
    | <update_stats_stream_option> [ ,...n ]
]
[ [ , ] [ ALL | COLUMNS | INDEX ]
[ [ , ] NORECOMPUTE ]
[ [ , ] INCREMENTAL = { ON | OFF } ]
[ [ , ] MAXDOP = max_degree_of_parallelism ]
[ [ , ] AUTO_DROP = { ON | OFF } ]
];
<update_stats_stream_option> ::=
[ STATS_STREAM = stats_stream ]
[ ROWCOUNT = numeric_constant ]
[ PAGECOUNT = numeric_content ]

```

```
-- Syntax for Azure Synapse Analytics and Parallel Data Warehouse
```

```
UPDATE STATISTICS [ schema_name . ] table_name
[ ( { statistics_name | index_name } ) ]
[ WITH
  {
    FULLSCAN
    | SAMPLE number PERCENT
    | RESAMPLE
  }
]
[;]
```

```
EXEC sp_updatestats;
```

Steps: MSSQL DB Creation from sybase through migration

19 January 2024 12:35

```
1. give 777 privilege to dbdevice folder
2. dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax> /opt/mssql-tools/bin/sqlcmd -S bngtapi2.temenosgroup.com -U SA -P 000Temenos -C -i createdb.sql
Configuration option 'contained database authentication' changed from 1 to 1. Run the RECONFIGURE statement to install.
db_name          db_collation
-----
master          SQL_Latin1_General_CI_AS
tempdb          SQL_Latin1_General_CI_AS
model           SQL_Latin1_General_CI_AS
msdb            SQL_Latin1_General_CI_AS
CIP_MSS_BNG1    NULL
V_MSSQL_LX      NULL

(6 rows affected)
Changed database context to 'D_MSSQL_LAX'.
db_name          db_collation
-----
master          SQL_Latin1_General_CI_AS
tempdb          SQL_Latin1_General_CI_AS
model           SQL_Latin1_General_CI_AS
msdb            SQL_Latin1_General_CI_AS
CIP_MSS_BNG1    NULL
V_MSSQL_LX      NULL
D_MSSQL_LAX     Latin1_General_100_BIN2_UTF8

(7 rows affected)
dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax>

dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax> cat createdb.sql
sp_configure 'contained database authentication', 1;
go
RECONFIGURE;
go
select convert(varchar(30), name) as db_name, convert(varchar(50), collation_name) as db_collation from sys.databases
go
CREATE DATABASE [D_MSSQL_LAX]
CONTAINMENT = PARTIAL
ON PRIMARY
( NAME      = 'D_MSSQL_LAX',
  FILENAME  = '/oams/d_mssql_lax/dbdevice/HLA_MSS.mdf',
  SIZE      = 512000KB,
  MAXSIZE   = UNLIMITED,
  FILEGROWTH = 20480KB
)
LOG ON
( NAME      = 'log1',
  FILENAME  = '/oams/d_mssql_lax/dbdevice/log.ldf',
  SIZE      = 512000KB,
  MAXSIZE   = 20GB,
  FILEGROWTH = 512000KB
)
COLLATE Latin1_General_100_BIN2_UTF8;
go

ALTER DATABASE [D_MSSQL_LAX] SET READ_COMMITTED_SNAPSHOT ON;
go

use D_MSSQL_LAX
go
select convert(varchar(30), name) as db_name, convert(varchar(50), collation_name) as db_collation from sys.databases
go

dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax>

=====
dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax> /opt/mssql-tools/bin/sqlcmd -S bngtapi2.temenosgroup.com -U SA -P 000Temenos -C -i dropdb.sql
Configuration option 'contained database authentication' changed from 1 to 1. Run the RECONFIGURE statement to install.
dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax>

dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax> cat dropdb.sql
ALTER DATABASE D_MSSQL_LAX SET SINGLE_USER WITH ROLLBACK IMMEDIATE;
go
DROP DATABASE IF EXISTS D_MSSQL_LAX
go
sp_configure 'contained database authentication', 1;
go
RECONFIGURE;
go

dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax> cd dbdevice/
dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax> ls -lrt
total 1024008
-rw-rw---- 1 mssql mssql 524288000 Jan 19 12:39 log.ldf
```

```
-rw-rw---- 1 mssql mssql 524288000 Jan 19 12:39 HLA_MSS.mdf  
dev@bngtapi2.temenosgroup.com:/oams/d_mssql_lax/dbdevice>
```

```
$ curl -o axis2.war http://utp-artifactory Untitled-1 ●  
53 cp -rf ../*ddl/* ddl/*.  
54 cp -rf ../*ddl/*md/* ddl/*md/*.  
55 cp -rf ../*ddl/*mb/* ddl/*mb/*.  
56 cp -rf ../*ddl/*usr/* ddl/*usr/*.  
57 cp -rf ../*ddl/*src/* usr/* ddl/*src/*.  
58 cp ../*install/*keep_files.usr.cfg install/*keep_files.usr.cfg  
59 cp ../*install/*aaa_install.cfg install/*aaa_install.cfg  
60 cp ../*config/* config/*.  
61  
62  
63  
64 nohup ./aaa_install.sh 000Temenos V_MSSQL_LX all /oams/v_mssql_lx/aaa/current/source_env v_syb_mntaaav_syb_mntaaa &  
priv|chk|sch|dbf|usr|  
65 ./install_aaa_files.sh /oams/v_mssql_lx/aaa/current/distribution /oams/v_mssql_lx/aaa/current no_bck MSSQL  
66  
67  
68 /opt/mssql-tools/bin/sqlcmd -S bngtapi2.temenosgroup.com -U SA -P 000Temenos -C -i createdb.sql  
69  
70 libsybct_r64.so not foundlibsybcs_r64.so not foundlibsybbblk_r64.so not foundDATE : 2024/01/17 17:21:34.058015  
71  
72  
73  
74 curl -k -o axis2.war http://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/axis2/2-22.202307.28-1702813747147.war  
75 curl -k -o t24-eb-ofs-connector-service-ejb.jar http://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/t24-eb-ofs-conn  
76 curl -k -o t24-if-integration-framework-service-ejb.jar https://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/t24-if  
77 curl -k -o BrowserWeb.war http://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/browser-classic/browser-classic-22.20  
78 curl -k -o irf-test-web.war http://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/irf-test-web/irf-test-web-24.282387  
79 curl -k -o irf-web-client.war https://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/irf-web-client/irf-web-client-24  
80 curl -k -o irf-rp-services.war http://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/irf-rp-services/irf-rp-services-  
81 curl -k -o irf-provider-container.war https://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/irf-provider-container/irf-provider-container-1  
82 curl -k -o t24-E8_ResourceProviderService-ejb.jar http://utp-artifactoryha-sec.temenosgroup.com/artifactory/stable-dev/202307/irf-provider-container/irf-provider-container-1  
83  
84  
85
```

Do you mind taking a quick feedback survey? [Take Survey](#) [Remind Me later](#) [Don't Show Again](#)

```
val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> sudo sh -c 'echo 3 >/proc/sys/vm/drop_cache'  
> ^C  
val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> sudo sh -c 'echo 3 >/proc/sys/vm/drop_cache'  
[sudo] password for val:
```

```
=====
```

```
val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx>/opt/mssql-tools/bin/sqlcmd -S bngtapi2.temenosgroup.com -U SA -P 000Temenos -C -i dropdb.sql  
Configuration option 'contained database authentication' changed from 1 to 1. Run the RECONFIGURE statement to install.
```

```
val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx>/opt/mssql-tools/bin/sqlcmd -S bngtapi2.temenosgroup.com -U SA -P 000Temenos -C -i createdb.sql  
Configuration option 'contained database authentication' changed from 1 to 1. Run the RECONFIGURE statement to install.
```

db_name	db_collation
master	SQL_Latin1_General_CI_AS
tempdb	SQL_Latin1_General_CI_AS
model	SQL_Latin1_General_CI_AS
msdb	SQL_Latin1_General_CI_AS
CIP_MSS_BNG1	NULL
D_MSSQL_LAX	NULL

(6 rows affected)

Changed database context to 'V_MSSQL_LX'.

db_name	db_collation
master	SQL_Latin1_General_CI_AS
tempdb	SQL_Latin1_General_CI_AS
model	SQL_Latin1_General_CI_AS
msdb	SQL_Latin1_General_CI_AS
CIP_MSS_BNG1	NULL
V_MSSQL_LX	Latin1_General_100_BIN2_UTF8
D_MSSQL_LAX	NULL

db_name	db_collation
master	SQL_Latin1_General_CI_AS
tempdb	SQL_Latin1_General_CI_AS
model	SQL_Latin1_General_CI_AS
msdb	SQL_Latin1_General_CI_AS
CIP_MSS_BNG1	NULL
V_MSSQL_LX	Latin1_General_100_BIN2_UTF8
D_MSSQL_LAX	NULL

(7 rows affected)

```
val@bngtapi2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX priv /oams/v_mssql_lx/aaa/current/source_env  
v_syb_mntaaav_syb_mntaaa
```

Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181113.log)

Check connection to the Database ... Done.

Current Database charset is utf8

Check current Database version ... Microsoft SQL Server version is 15.0.4073.23

Done.

Validating database information... Done

Checking Rights & Privileges... Done.

INSTALLATION SUCCESSFULLY IMPLEMENTED

Log file located in '/oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181113.log'

Exiting script...

```
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX chk /oams/v_mssql_lx/aaa/current/source_env  
v_syb_mntaaav_syb_mntaaa
```

Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181147.log)
Check connection to the Database ... Done.
Current Database charset is utf8
Check current Database version ... Microsoft SQL Server version is 15.0.4073.23
Done.
Validating database information... Done
Checking Files...Done.

INSTALLATION SUCCESSFULLY IMPLEMENTED

```
Log file located in '/oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181147.log'
```

Exiting script...

```
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX sch /oams/v_mssql_lx/aaa/current/source_env  
v_syb_mntaaav_syb_mntaaa
```

Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181215.log)
Check connection to the Database ... Done.
Current Database charset is utf8
Check current Database version ... Microsoft SQL Server version is 15.0.4073.23
Done.
Validating database information... Done

```
*****  
*** Creating schemas with user sa...  
*****
```

DATABASE_NAME=V_MSSQL_LX

Creating Schema aaalogindb ...Done.
Creating Schema aaamaindb ...Done.
Creating Schema aaarepdbs ...Done.
Creating Schema permstldb ...Done.
Creating Schema tempslbd ...Done.

```
*****  
*** Creating roles with user sa ...  
*****
```

Creating role triplea_owner ...Done.
Creating role triplea ...Done.
Creating role tasc_tech ...Done.

```
*****  
*** Grant schemas with user sa...  
*****
```

(return status = 0)
Done.

INSTALLATION SUCCESSFULLY IMPLEMENTED

```
Log file located in '/oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181215.log'
```

Exiting script...

```
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX dbf /oams/v_mssql_lx/aaa/current/source_env  
v_syb_mntaaav_syb_mntaaa
```

Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181319.log)
Check connection to the Database ... Done.
Current Database charset is utf8
Check current Database version ... Microsoft SQL Server version is 15.0.4073.23
Done.
Validating database information... Done

```
*****  
*** Starting dbf module ...  
*****
```

DATABASE_NAME=V_MSSQL_LX
Attaching filegroup aaamaindb_data_seg1 to database...
Add file main_data1 to filegroup...
Add file main_data2 to filegroup...
Add log file main_log1 to filegroup...

Attaching filegroup aaamaindb_idx_seg1 to database...

Add file main_idx1 to filegroup...

Attaching filegroup aaarepdB_data_seg1 to database...

Add file rep_data1 to filegroup...

Attaching filegroup aaarepdB_idx_seg1 to database...

Add file rep_idx1 to filegroup...

Attaching filegroup aaalogindB_data_seg1 to database...

Add file login_data1 to filegroup...

Attaching filegroup aaalogindB_idx_seg1 to database...

Add file login_idx1 to filegroup...

Attaching filegroup aaatsldb1_data_seg1 to database...

Add file permstldb_data1 to filegroup...

Attaching filegroup aaatsldb1_idx_seg1 to database...

Add file permstldb_idx1 to filegroup...

Attaching filegroup aaatsldb2_data_seg1 to database...

Attaching filegroup aaatsldb1_idx_seg1 to database...

Add file permstldb_idx1 to filegroup...

Attaching filegroup aaatsldb2_data_seg1 to database...

Add file temptsldb_data1 to filegroup...

Attaching filegroup aaatsldb2_idx_seg1 to database...

Add file temptsldb_idx1 to filegroup...

Done

INSTALLATION SUCCESSFULLY IMPLEMENTED

Log file located in '/oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181319.log'

Exiting script...

```
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX usr /oams/v_mssql_lx/aaa/current/source_env  
v_syb_mntaaav_syb_mntaaa
```

Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181529.log)

Check connection to the Database ... Done.

Current Database charset is utf8

Check current Database version ... Microsoft SQL Server version is 15.0.4073.23

Done.

Validating database information... Done

```
*****  
*** Creating users with user sa ...  
*****
```

Creating Login vmssqlxaaa ... (Login already exists)

Creating User vmssqlxaaa ...Done.

Creating Login vmsqlxtasc ... (Login already exists)

Creating User vmsqlxtasc ...Done.

Creating Login proxylogin ... (Login already exists)

Creating User proxylogin ...Done.

Creating Login aaa_login_manager ... (Login already exists)

Creating User aaa_login_manager ...Done.

Done.

INSTALLATION SUCCESSFULLY IMPLEMENTED

Log file located in '/oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T181529.log'

Exiting script...

Dropping caches

```
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> sudo sh -c 'echo 3 >/proc/sys/vm/drop_caches'  
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install>
```

```
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> export SYBASE=/oams/v_syb_mnt/sybase/current  
val@bngtaplx2.temenosgroup.com:/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX mig /oams/v_mssql_lx/aaa/current/source_env  
v_syb_mntaaav_syb_mntaaa
```

Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T182423.log)

Check connection to the Database ... Done.

Current Database charset is utf8

Check current Database version ... Microsoft SQL Server version is 15.0.4073.23

Done.

Validating database information... Done

```
*****
*** Starting initialisation of migration of data from /oams/v_mssql_lx/aaa/current/source_env (18:24:26)
*****
Copy custom files from /oams/v_mssql_lx/aaa/current/source_env (18:24:26)...
No files found in directory /oams/v_mssql_lx/aaa/current/source_env/install/data usr
1 files copy from directory /oams/v_mssql_lx/aaa/current/source_env/install
No files found in directory /oams/v_mssql_lx/aaa/current/source_env/install/dl/md/ds
9 files copy from directory /oams/v_mssql_lx/aaa/current/source_env/install/dl/md/usr
No files found in directory /oams/v_mssql_lx/aaa/current/source_env/install/dl/md(mb
2 files copy from directory /oams/v_mssql_lx/aaa/current/source_env/install/dl/md/custo
5 files copy from directory /oams/v_mssql_lx/aaa/current/source_env/install/dl/src
Done.
Checking databases access (18:24:26)...Done.
Checking databases access (18:24:26)...Done.
Upgrade aaa_install.cfg file (18:24:27)...
Done.
Creating data-types (18:24:29)...Done.
Install Triple-A the initial meta-dictionary (18:24:29)...
.....
.....
.....
INFO: Summary      on entity instr_price_histo      - 2780897 rows migrated
INFO: Summary      on entity position            - 109792 rows migrated
INFO: Summary      on entity operation           - 39336 rows migrated
INFO: Summary      on entity list_build_history_compo - 389837 rows migrated
INFO: Summary      on entity balance_pos          - 58193 rows migrated
INFO: Summary      on entity instrument          - 10208 rows migrated
INFO: Summary      on entity ext_order           - 6260 rows migrated
INFO: Summary      on entity format_element       - 31573 rows migrated
INFO: Summary      on entity strategy_element     - 13904 rows migrated
INFO: Summary      on entity exch_rate           - 47707 rows migrated
INFO: Summary      on entity portfolio           - 3721 rows migrated
INFO: Summary      on entity denomination        - 44286 rows migrated
INFO: Summary      on entity ud_instrument        - 10208 rows migrated
INFO: Summary      on entity dict_panel           - 4882 rows migrated
INFO: Summary      on entity strategy           - 2249 rows migrated
INFO: Summary      on entity opened_position      - 29281 rows migrated
INFO: Summary      on entity ud_ext_order         - 6260 rows migrated
INFO: Summary      on entity market_segment       - 6744 rows migrated
INFO: Summary      on entity ud_portfolio         - 3721 rows migrated
INFO: Summary      on entity format              - 948 rows migrated
INFO: Summary      on entity model_constr_elt     - 1570 rows migrated
INFO: Summary      on entity strategy_link        - 2177 rows migrated
INFO: Summary      on entity third_party         - 486 rows migrated
INFO: Summary      on entity port_chrono         - 5875 rows migrated
INFO: Summary      on entity dict_entity_constraints - 3910 rows migrated
INFO: Summary      on entity strategy_compo       - 2266 rows migrated
INFO: Summary      on entity tax_lot             - 679 rows migrated
INFO: Summary      on entity notepad            - 4626 rows migrated
INFO: Summary      on entity strategy_history     - 2404 rows migrated
INFO: Summary      on entity pay_instruction     - 5084 rows migrated
INFO: Summary      on entity ext_operation        - 94 rows migrated
INFO: Summary      on entity list                - 1063 rows migrated
INFO: Summary      on entity appl_msg_text        - 6761 rows migrated
INFO: Summary      on entity dict_function_attribute - 5431 rows migrated
INFO: Summary      on entity func_secu_prof_compo   - 1443 rows migrated
INFO: Summary      on entity income_event         - 1225 rows migrated
INFO: Summary      on entity instr_chrono         - 2726 rows migrated
INFO: Summary      on entity instr_price_class    - 3656 rows migrated
INFO: Summary      on entity interest_cond        - 654 rows migrated
INFO: Summary      on entity lock_portfolio       - 3721 rows migrated
INFO: Summary      on entity instr_compo          - 1139 rows migrated
INFO: Summary      on entity ud_list             - 1063 rows migrated
INFO: Summary      on entity synonym            - 1133 rows migrated
INFO: Summary      on entity appl_user           - 339 rows migrated
INFO: Summary      on entity format_prof_compo    - 2141 rows migrated
INFO: Summary      on entity sector_attrib       - 1951 rows migrated
INFO: Summary      on entity model_constraint     - 535 rows migrated
INFO: Summary      on entity xd_attribute        - 22743 rows migrated
INFO: Summary      on entity dict_attribute      - 22273 rows migrated
INFO: Summary      on entity xd_label            - 67232 rows migrated
INFO: Summary      on entity script_definition    - 62970 rows migrated
INFO: Summary      on entity dict_label          - 85084 rows migrated
INFO: Summary      on entity dict_perm_value     - 6842 rows migrated
INFO: Summary      on entity xd_perm_value       - 6841 rows migrated
INFO: Summary      on entity dict_criteria      - 4091 rows migrated
INFO: Summary      on entity xd_entity           - 841 rows migrated
INFO: Summary      on entity dict_entity         - 841 rows migrated
INFO: Summary      on entity xd_index           - 1658 rows migrated
INFO: Summary      on entity xd_index_attrib     - 2322 rows migrated
INFO: Summary      on entity appl_message        - 2327 rows migrated
INFO: Summary      on entity xd_entity_feature   - 671 rows migrated
INFO: Summary      on entity dict_err_msg        - 393 rows migrated
INFO: Summary      on entity dict_language       - 54 rows migrated
*****
*** Migration of data from /oams/v_mssql_lx/aaa/current/source_env done (18:48:13)
*****
```

```
*****
*** Starting finalisation of migration of data from /oams/v_mssql_lx/aaa/current/source_env (18:48:13)
*****
Upgrade data from version R27.0
delete_dict_function (18:48:15)...Done.
delete_precomputed_attributes (18:48:16).../oams/v_mssql_lx/aaa/current/install/aaa_install.common.sh: line 577: delete_precomputed_attributes: command not found
Done.
fix_appl_param_value (18:48:16)...Done.
purge_tables (18:48:17)...Done.
update_opti_proc (18:48:19)...Done.
Done.
Clean-up extended meta-dictionary tables (18:48:43)...Done.
Management of duplicated lines on instr_price_class (18:48:45)...Done.
Reset xd_action_e for all extended meta-dictionary tables (18:48:46)...Done.
Done.
Clean-up extended meta-dictionary tables (18:48:51)...Done.
Remove dispatcher setting (18:48:52)...Done.
Fix AAA_VERSION value (18:48:54)...Done.
*****
*** Finalisation of migration of data from /oams/v_mssql_lx/aaa/current/source_env done (18:48:55)
*****
```

INSTALLATION SUCCESSFULLY IMPLEMENTED

Log file located in '/oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T182423.log'

/oams/v_mssql_lx/aaa/current/install> ./aaa_install.sh 000Temenos V_MSSQL_LX obj /oams/v_mssql_lx/aaa/current/source_env v_syb_mntaaav_syb_mntaaa

```
Starting installation of Triple'A (log file is /oams/v_mssql_lx/aaa/current/ddl/log/aaa_install.20240119T203201.log)
Check connection to the Database ... Done.
Current Database charset is utf8
Check current Database version ... Microsoft SQL Server version is 15.0.4073.23
Done.
Validating database information... Done
```

```
*****
*** Starting installation of DDL objects (20:32:04)
*****
Creating data-types (20:32:04)...Done.
Install all packages (20:32:04)...Done.
Creating Minimal meta-dictionary (20:32:05)....
```


BIP1140I: Overriding property temenos.tti.b2f.B2F_MQtoTAP#MQ Input.queueName with '/TTISERVER/TTI/T24_IN' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MQtoTAP#MQ B2F.queueName with '/TTISERVER/TTI/XML_B2F' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MQBatchtoTAP#MQ Input.queueName with '/TTISERVER/TTI/T24_BATCH_IN' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MQBatchtoTAP#MQ B2F.queueName with '/TTISERVER/TTI/XML_B2F' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.f2b.F2B_SlowLine#MQ Output.queueName with '/TTISERVER/TTI/XML_F2B' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.f2b.F2B_SlowLine#MQ Input.queueName with '/TTISERVER/TTI/XML_F2B' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.f2b.F2B_MQtoT24#T24Outbound.securityCredential with '123456' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.f2b.F2B_MQtoT24#T24Outbound.securityPrincipal with 'INPUTT' in 'TTI.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1143I: Saving Bar file C:\oams\temenos\local\tti\ttiserver\bar\TTI.bar...

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>
C:\oams\temenos\local\tti\ttiserver\bar>mqsapplybaroverride -b C:\oams\temenos\local\tti\ttiserver\bar\T24-Jms.bar -p C:\oams\temenos\local\tti\ttiserver\bar\queueNamesUpdateOnT24-Jms.output.properties -r
BIP1138I: Applying overrides using runtime mqsapplybaroverrides...
BIP1140I: Overriding property tti.library.Error#ToErrorQueue.queueName with '/TTISERVER/TTI/ERR' in 'T24-Jms.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Monitor#ToMonitorQueue.queueName with '/TTISERVER/TTI/MON' in 'T24-Jms.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.connectors.B2F_T24toIN#JMS Input.backoutDestination with 'jms/queue/t24IFInboundQueue_BO' in 'T24-Jms.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.connectors.B2F_T24toIN#JMS Input.sourceQueueName with 'jms/queue/t24IFInboundQueue' in 'T24-Jms.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Error#ToErrorQueue.queueName with '/TTISERVER/TTI/ERR' in 'T24-Jms.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Monitor#ToMonitorQueue.queueName with '/TTISERVER/TTI/MON' in 'T24-Jms.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.connectors.B2F_T24toIN#JMS Input.backoutDestination with 'jms/queue/t24IFInboundQueue_BO' in 'T24-Jms.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.connectors.B2F_T24toIN#JMS Input.sourceQueueName with 'jms/queue/t24IFInboundQueue' in 'T24-Jms.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1143I: Saving Bar file C:\oams\temenos\local\tti\ttiserver\bar\T24-Jms.bar...

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>
C:\oams\temenos\local\tti\ttiserver\bar>mqsapplybaroverride -b C:\oams\temenos\local\tti\ttiserver\bar\TTI-File.bar -p C:\oams\temenos\local\tti\ttiserver\bar\queueNamesUpdateOnTTI-File.output.properties -r
BIP1138I: Applying overrides using runtime mqsapplybaroverrides...
BIP1140I: Overriding property temenos.tti.f2b.F2B_AllFiles_MQ#MQ Output.queueName with '/TTISERVER/TTI/XML_F2B' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#MQ Input.queueName with '/TTISERVER/TTI/XML_B2F' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Error#ToErrorQueue.queueName with '/TTISERVER/TTI/ERR' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Monitor#ToMonitorQueue.queueName with '/TTISERVER/TTI/MON' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Batch.outputDirectory with 'C:\oams\temenos\local\gwpack\xml_batch' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-F2B.outputDirectory with 'C:\oams\temenos\local\gwpack\xml_f2b' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Online.outputDirectory with 'C:\oams\temenos\local\gwpack\xml_online' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_AllFiles_MQ#FileInput-Msg.inputDirectory with 'C:\oams\temenos\local\gwpack\xml_msg' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Batch.fileFtp with 'no' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Batch.fileFtpServer with 'GWPackFtpServer_batch' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-F2B.fileFtp with 'no' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-F2B.fileFtpServer with 'GWPackFtpServer_f2b' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Online.fileFtp with 'no' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Online.fileFtpServer with 'GWPackFtpServer_online' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_AllFiles_MQ#FileInput-Msg.fileFtp with 'no' in 'TTI-File.appzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_AllFiles_MQ#MQ Output.queueName with '/TTISERVER/TTI/XML_F2B' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#MQ Input.queueName with '/TTISERVER/TTI/XML_B2F' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Error#ToErrorQueue.queueName with '/TTISERVER/TTI/ERR' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property tti.library.Monitor#ToMonitorQueue.queueName with '/TTISERVER/TTI/MON' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Batch.outputDirectory with 'C:\oams\temenos\local\gwpack\xml_batch' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-F2B.outputDirectory with 'C:\oams\temenos\local\gwpack\xml_f2b' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Online.outputDirectory with 'C:\oams\temenos\local\gwpack\xml_online' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_AllFiles_MQ#FileInput-Msg.inputDirectory with 'C:\oams\temenos\local\gwpack\xml_msg' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Batch.fileFtp with 'no' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-F2B.fileFtpServer with 'GWPackFtpServer_f2b' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Online.fileFtp with 'no' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_MqToFile#FileOutput-Online.fileFtpServer with 'GWPackFtpServer_online' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...
BIP1140I: Overriding property temenos.tti.b2f.B2F_AllFiles_MQ#FileInput-Msg.fileFtp with 'no' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...

BIP1140I: Overriding property temenos.tti.f2b.F2B_AllFiles_MQ#FileInput-Msg.fileFtpServer with 'GWPackFtpServer_msg' in 'TTI-File.appzip/TTI-Library.libzip/META-INF/broker.xml' ...

BIP1143I: Saving Bar file C:\oams\temenos\local\tti\ttiserver\bar\TTI-File.bar...

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>mqsiapplybaroverride -b C:\oams\temenos\local\tti\ttiserver\bar\TTI-Log.bar -p C:\oams\temenos\local\tti\ttiserver\bar\queueNamesUpdateOnTTI-Log.output.properties -r

BIP1138I: Applying overrides using runtime mqsiapplybaroverrides...

BIP1140I: Overriding property tti.library.Error#ToErrorQueue.queueName with '/TTISERVER/TTI/ERR' in 'TTI-Log.appzip/META-INF/broker.xml' ...

BIP1140I: Overriding property tti.library.Monitor#ToMonitorQueue.queueName with '/TTISERVER/TTI/MON' in 'TTI-Log.appzip/META-INF/broker.xml' ...

BIP1140I: Overriding property temenos.tti.logger.ErrorDrainer#MQ Err Input.queueName with '/TTISERVER/TTI/ERR' in 'TTI-Log.appzip/META-INF/broker.xml' ...

BIP1140I: Overriding property temenos.tti.logger.MonitorDrainer#MQ Mon Input.queueName with '/TTISERVER/TTI/MON' in 'TTI-Log.appzip/META-INF/broker.xml' ...

BIP1140I: Overriding property tti.library.Error#ToErrorQueue.queueName with '/TTISERVER/TTI/ERR' in 'TTI-Log.appzip/TTI-Library.libzip/META-INF/broker.xml' ...

BIP1140I: Overriding property tti.library.Monitor#ToMonitorQueue.queueName with '/TTISERVER/TTI/MON' in 'TTI-Log.appzip/TTI-Library.libzip/META-INF/broker.xml' ...

BIP1140I: Overriding property temenos.tti.logger.ErrorDrainer#MQ Err Input.queueName with '/TTISERVER/TTI/ERR' in 'TTI-Log.appzip/TTI-Library.libzip/META-INF/broker.xml' ...

BIP1140I: Overriding property temenos.tti.logger.MonitorDrainer#MQ Mon Input.queueName with '/TTISERVER/TTI/MON' in 'TTI-Log.appzip/TTI-Library.libzip/META-INF/broker.xml' ...

BIP1143I: Saving Bar file C:\oams\temenos\local\tti\ttiserver\bar\TTI-Log.bar...

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>mqsideploy ACENODE -e TTIServer -a C:\oams\temenos\local\tti\ttiserver\bar\TTIPolicy.bar

BIP1039I: Deploying BAR file 'C:\oams\temenos\local\tti\ttiserver\bar\TTIPolicy.bar' to integration node 'ACENODE' (integration server 'TTIServer') ...

BIP9332I: PolicyProject 'TTIPolicy' has been created successfully.

BIP1092I: The deployment request was processed successfully.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>mqsideploy ACENODE -e TTIServer -a C:\oams\temenos\local\tti\ttiserver\bar\TTI.bar

BIP1039I: Deploying BAR file 'C:\oams\temenos\local\tti\ttiserver\bar\TTI.bar' to integration node 'ACENODE' (integration server 'TTIServer') ...

BIP9320E: Message Flow 'temenos.tti.f2b.F2B_MQtoT24', 'temenos.tti.f2b.F2B_MQtoT24' encountered a failure and could not start.

BIP2241E: A Loadable Implementation Library (.lil, .jar, or .par) is not found for message flow node type 'T24OutboundNode' in message flow 'temenos.tti.f2b.F2B_MQtoT24'.

BIP9333W: Application 'TTI' has been created but contains errors which has prevented some resources from starting.

BIP1096E: The source 'TTI.bar' has been deployed but there were one or more failures which may mean the deployed resources will be unable to execute.

BIP1092I: The deployment request was processed successfully.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>mqsideploy ACENODE -e TTIServer -a C:\oams\temenos\local\tti\ttiserver\bar\TTI-File.bar

BIP1039I: Deploying BAR file 'C:\oams\temenos\local\tti\ttiserver\bar\TTI-File.bar' to integration node 'ACENODE' (integration server 'TTIServer') ...

BIP9332I: Application 'TTI-File' has been created successfully.

BIP1092I: The deployment request was processed successfully.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>mqsideploy ACENODE -e TTIServer -a C:\oams\temenos\local\tti\ttiserver\bar\TTI-Log.bar

BIP1039I: Deploying BAR file 'C:\oams\temenos\local\tti\ttiserver\bar\TTI-Log.bar' to integration node 'ACENODE' (integration server 'TTIServer') ...

BIP9332I: Application 'TTI-Log' has been created successfully.

BIP1092I: The deployment request was processed successfully.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>mqsideploy ACENODE -e TTIServer -a C:\oams\temenos\local\tti\ttiserver\bar\T24-Jms.bar

BIP1039I: Deploying BAR file 'C:\oams\temenos\local\tti\ttiserver\bar\T24-Jms.bar' to integration node 'ACENODE' (integration server 'TTIServer') ...

BIP9332I: Application 'T24-Jms' has been created successfully.

BIP1092I: The deployment request was processed successfully.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>mqsistop ACENODE

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>mqsistart ACENODE

BIP8096I: Successful command initiation, check the system log to ensure that the component started without problem and that it continues to run without problem.

C:\oams\temenos\local\tti\ttiserver\bar>mqsistop ACENODE

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>mqsistart ACENODE

BIP8096I: Successful command initiation, check the system log to ensure that the component started without problem and that it continues to run without problem.

C:\oams\temenos\local\tti\ttiserver\bar>mqisetdbparms ACENODE -n jms:jms/RemoteConnectionFactory -u INPUTT -p 123456

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>mqisetdbparms ACENODE -n jndi:org.jboss.naming.remote.client.InitialContextFactory -u INPUTT -p 123456

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>mqsistop ACENODE

BIP8071I: Successful command completion.

C:\oams\temenos\local\tti\ttiserver\bar>mqsistart ACENODE

BIP8096I: Successful command initiation, check the system log to ensure that the component started without problem and that it continues to run without problem.

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>

C:\oams\temenos\local\tti\ttiserver\bar>

MQM Commands

Microsoft Windows [Version 10.0.19043.1766]

(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Program Files\IBM\WebSphere MQ\bin

C:\Program Files\IBM\WebSphere MQ\bin>crtmqm ACEQMGR

WebSphere MQ queue manager created.

Directory 'C:\ProgramData\IBM\MQ\qmgrs\ACEQMGR' created.

The queue manager is associated with installation 'Installation1'.

Creating or replacing default objects for queue manager 'ACEQMGR'.

Default objects statistics : 82 created. 0 replaced. 0 failed.

Completing setup.

Setup completed.

C:\Program Files\IBM\WebSphere MQ\bin>strmqm ACEQMGR

WebSphere MQ queue manager 'ACEQMGR' starting.

The queue manager is associated with installation 'Installation1'.

5 log records accessed on queue manager 'ACEQMGR' during the log replay phase.

Log replay for queue manager 'ACEQMGR' complete.

Transaction manager state recovered for queue manager 'ACEQMGR'.

WebSphere MQ queue manager 'ACEQMGR' started using V8.0.0.5.

C:\Program Files\IBM\WebSphere MQ\bin>runmqsc ACEQMGR

5724-H72 (C) Copyright IBM Corp. 1994, 2015.

Starting MQSC for queue manager ACEQMGR.

define qlocal(/TTISERVER/TTI/T24_JMS_BO) DEFPSIST(YES) MAXDEPTH(50000)

1 : define qlocal(/TTISERVER/TTI/T24_JMS_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/T24_JMS) BOQNAME(/TTISERVER/TTI/T24_JMS_BO) DEFPSIST(YES) MAXDEPTH(50000)

2 : define qlocal(/TTISERVER/TTI/T24_JMS) BOQNAME(/TTISERVER/TTI/T24_JMS_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/T24_BATCH_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

3 : define qlocal(/TTISERVER/TTI/T24_BATCH_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/T24_BATCH_IN) BOQNAME(/TTISERVER/TTI/T24_BATCH_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

4 : define qlocal(/TTISERVER/TTI/T24_BATCH_IN) BOQNAME(/TTISERVER/TTI/T24_BATCH_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/T24_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

5 : define qlocal(/TTISERVER/TTI/T24_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/T24_IN) BOQNAME(/TTISERVER/TTI/T24_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

6 : define qlocal(/TTISERVER/TTI/T24_IN) BOQNAME(/TTISERVER/TTI/T24_IN_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/XML_B2F_BO) DEFPSIST(YES) MAXDEPTH(50000)

7 : define qlocal(/TTISERVER/TTI/XML_B2F_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/XML_B2F) BOQNAME(/TTISERVER/TTI/XML_B2F_BO) DEFPSIST(YES) MAXDEPTH(50000)

8 : define qlocal(/TTISERVER/TTI/XML_B2F) BOQNAME(/TTISERVER/TTI/XML_B2F_BO) DEFPSIST(YES) MAXDEPTH(50000)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/XML_F2B_BO) DEFPSIST(YES)

9 : define qlocal(/TTISERVER/TTI/XML_F2B_BO) DEFPSIST(YES)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/XML_F2B) BOQNAME(/TTISERVER/TTI/XML_F2B_BO) DEFPSIST(YES)

10 : define qlocal(/TTISERVER/TTI/XML_F2B) BOQNAME(/TTISERVER/TTI/XML_F2B_BO) DEFPSIST(YES)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/ERR_BO) DEFPSIST(YES)

11 : define qlocal(/TTISERVER/TTI/ERR_BO) DEFPSIST(YES)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/ERR) BOQNAME(/TTISERVER/TTI/ERR_BO) DEFPSIST(YES)

12 : define qlocal(/TTISERVER/TTI/ERR) BOQNAME(/TTISERVER/TTI/ERR_BO) DEFPSIST(YES)

AMQ8006: WebSphere MQ queue created.

define qlocal(/TTISERVER/TTI/MON_BO) DEFPSIST(YES)

13 : define qlocal(/TTISERVER/TTI/MON_BO) DEFPSIST(YES)

AMQ8006: WebSphere MQ queue created.

```
define qlocal(/TTISERVER/TTI/MON) BOQNAME(/TTISERVER/TTI/MON_BO) DEFPSIST(YES)
 14 : define qlocal(/TTISERVER/TTI/MON) BOQNAME(/TTISERVER/TTI/MON_BO) DEFPSIST(YES)
AMQ8006: WebSphere MQ queue created.
define qlocal(/TTISERVER/TTI/XML_T24_BO) DEFPSIST(YES)
 15 : define qlocal(/TTISERVER/TTI/XML_T24_BO) DEFPSIST(YES)
AMQ8006: WebSphere MQ queue created.
define qlocal(/TTISERVER/TTI/XML_T24) BOQNAME(/TTISERVER/TTI/XML_T24) DEFPSIST(YES)
 16 : define qlocal(/TTISERVER/TTI/XML_T24) BOQNAME(/TTISERVER/TTI/XML_T24) DEFPSIST(YES)
AMQ8006: WebSphere MQ queue created.

:
```

DISPLAY(-V) option in aaa_srv/gui/sql

30 January 2024 17:51

aaa_srv64 -Uaaa -Paaaaaaaa -SAAASERVHLAL -V

WealthSuite Front Office. (Build : R23.1.12A22.Nov 15 2023-19:42:37 with debug info) (WIN32)

```
AAAHOME = /oams/v_reg_ora_4/aaa/current
AAAMSG = W:\TA\23.1.12.A22\triplea_core\msg
AAABIN = W:\TA\23.1.12.A22\triplea_core\arch\win\bin
AAALOGINDB = aaalogindb
AAAOIT = W:\TA\23.1.12.A22\triplea_core\arch\win\oit
AAAREP = C:\TEMP
AAAREPORTSTDERR Not defined
AAAREPORTSTDOUT Not defined
AAAUNIXHOST = lauhpj7
AAAUNIXHOME = /reference/v3/area/version/appl
AAAUNIXLOGIN = aaa
AAAUNIXSECURED Not defined
AAAVWRPS Not defined
SYBASE = C:\git\thirdparty\sybase\15.7.7
DSQUERY = V_REG_ORA_4
LANG = en_US.UTF-8
ORACLE_HOME = c:\git\thirdparty\oracle\12.1.0.2.0\main
AAATNSNAME = V_REG_ORA_4
AAA_RDBMS = ORACLE
RUN_AAA_INSTALL Not defined
AAACONFIGPATH = W:\TA\AAACFGPATH
```

Oracle: select for update nowait example

30 January 2024 12:13

```
alter session set current_schema=aaamaindb;
update table_modif_stat set last_modif_d=sysdate where entity_dict_id=1200;
select * from table_modif_stat where entity_dict_id=1200 for update nowait;
commit;
=====
set serveroutput on size 32000
declare
    status number;
begin
    select 1 into status from table_modif_stat where entity_dict_id=1200 for update nowait;
exception
    when others then
        dbms_output.put_line(sqlcode);
        dbms_output.put_line(sqlerrm);
end;
/
commit;
```

Debugging QString in visual studio & gdb

30 January 2024 15:57

((str).d)->array,su

(char*)str.d + str.d->offset,su

From <<https://stackoverflow.com/questions/22324166/visual-studio-2012-and-qt4-8-5-how-to-see-qstring-contents-in-debug-mode>>

the **autoexp.dat** is not used unless you set the Debugger options to "*Enable native Edit and Continue*"

here is my natvis implementation of the QString for 4.8.5 (expands only the first 25 chars)

```
<Type Name="QString">
  <DisplayString>'{d->data,sub}'</DisplayString>
  <StringView>d->data,sub</StringView>
  <Expand>
    <Item Condition="d->size >= 0" Name="[size]">d->size</Item>
    <Item Condition="d->size < 0" Name="[referenced]">d->ref._q_value</Item>
    <ArrayItems Condition="d->size <= 25">
      <Size>d->size</Size>
      <ValuePointer>d->data,c</ValuePointer>
    </ArrayItems>
    <ArrayItems Condition="d->size > 25">
      <Size>25</Size>
      <ValuePointer>d->data,c</ValuePointer>
    </ArrayItems>
    <Item Condition="d->size > 25" Name="...">d->size - 25</Item>
  </Expand>
</Type>
```

From <<https://stackoverflow.com/questions/22324166/visual-studio-2012-and-qt4-8-5-how-to-see-qstring-contents-in-debug-mode>>

For me, in Qt5 and Visual Studio 2012, i just did this:

Project options -> debugging -> Debugger type -> Set it **from Auto to Mixed**.

Not the strings are displayed in the watch.

From <<https://stackoverflow.com/questions/22324166/visual-studio-2012-and-qt4-8-5-how-to-see-qstring-contents-in-debug-mode>>

For Visual Studio 2015...

Tools > Options > Debugging > General > Check "Use Native Compatibility Mode"

From <<https://stackoverflow.com/questions/22324166/visual-studio-2012-and-qt4-8-5-how-to-see-qstring-contents-in-debug-mode>>

p qStr.toStdString();

I executed this in command line (available in visual studio), worked in gdb and lldb.

From <<https://stackoverflow.com/questions/22324166/visual-studio-2012-and-qt4-8-5-how-to-see-qstring-contents-in-debug-mode>>

Jira - Advanced search guide

02 February 2024 15:54

resolutiondate >= '2023/01/01 00:00' and resolutiondate < '2024/01/01 00:00' and "Resolved by" in ("sravya.sulluru", shreyash, ravishankarv,"k.hemantha")

<https://confluence.atlassian.com/jira060/advanced-searching-370704913.html>

Server utilization, disk space - sdp

02 February 2024 20:29

Use **sdp** option to check the details.

>sdp

```
=====
S O F D E P   A D M I N I S T R A T I O N   M E N U
-----
User 'val' on maa2aplx1.temenosgroup.com      18/09/2024 19:17
=====

1. Get complete host information
2. Generate all-in-one.dpi.properties for OCS
3. Import CDM Data
4. Run TSL jobs (Pre-comp data)
5. Run BPI jobs for OCS
6. Load or Backup TAP databases
7. Apply demo TA license
8. Check Open ports
9. Import T_AI Data
10. Get free space left in Sybase
11. Sybase Post Install Sanity Check
12. Configure Sybase Parameters (.cfg file)
13. Launch Query On Positions (QOP)
14. Check Financial,Dataserver & OCS server status
15. Clean Application logs
16. Take TA and OCS Home backup
17. Remove all fork processes
18. Create 'mqm' user and groups
19. Create E2E machine profiles

99. Exit
```

To check maximum depth 2 levels:

```
>du -m --max-depth=2 2>/dev/null
```

Threshold more than 1G

```
>du -h --threshold=1G 2>/dev/null
```

```
>du -m --threshold=1G 2>/dev/null
```

LDF and MDF File. Shrink the LDF file size.

06 February 2024 22:38

My SQL LDF file is so big in comparison with the MDF file, what can I do ?

At a lot of customer sites we have seen situations in which the transaction log file (LDF) is multiple times bigger than the data (MDF) file. This is not a 'normal' situation. In this document we will explain what you can do if you have an LDF file of your SQL server database which is too big in comparison with the size of your MDF file.

What is the difference between the MDF and LDF file ?

The .MDF file is the primary data file of a SQL database. The .LDF file is the transaction log file of a SQL database. The transaction log is used to guarantee the data integrity of the database and for data recovery. Data integrity is implemented by design and can't be configured by the database administrator. Data recovery is implemented by design and is configurable by the database administrator.

In SQL Server you have 3 different data recovery models: Simple, Full and bulk-logged. Typically, a database uses the **Full** recovery model or **Simple** recovery model.

What is the main difference between **Full** and **Simple**?

- **Simple:** No transaction log backups. Changes since the most recent backup are unprotected. In the event of a disaster, those changes are lost and need to be redone. You can only recover to the end of a backup.
- **Full:** Requires transaction log backups. No work is lost due to a lost or damaged data file. Can recover to a specific point in time, assuming that your backups are complete up to that point in time. For example, prior to application or user error.

What is in the transaction log in the Simple recovery model ?

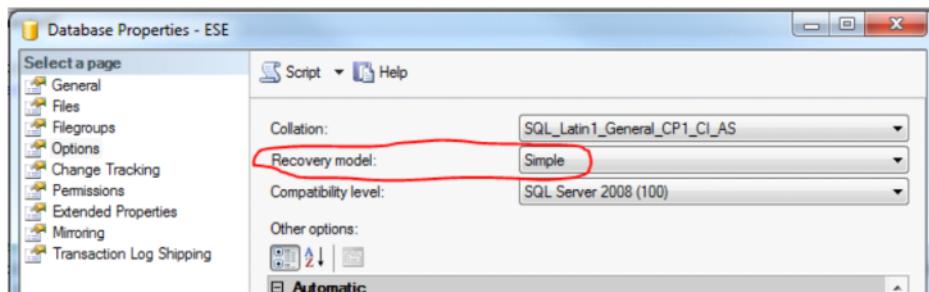
All open transactions. This means not committed transactions. This is called the active part of the transaction log. At the moment a transaction is committed it will be truncated from the transaction log. Log truncation automatically frees disk space for reuse by the transaction log. The biggest size of the transaction log will be the size of all open transactions at one moment. Therefor in a 'normal' SQL production database the transaction log file will never get very big.

What is in the transaction log in the Full recovery model ?

All committed transaction (inactive part) and open transactions (active part). The log records cannot be truncated until all its log records have been captured in a transaction log backup. The log is truncated when you backup the transaction log.

What can we do to lower the size of the transactional log file (LDF)?

It depends on the configured recovery model of your database, what you can do. The recovery model of your database can be found in the properties of the database:



or via SSMS:

Open a query window and select the database.

USE

```
SELECT Recovery_model_desc FROM sys.databases WHERE Name = db_name()
```

What to do if your recovery model is: FULL?

Check if you are making transactional backups on a regular time interval. If you only make full backups your transaction log will always grow and will never be truncated. In case you never want to lose data in case of an application or user error. Start making transactional log backups. If a database restore to the latest full backup is acceptable, you can switch the recovery model of your database to simple. Before switching the recovery model of your database please read next document: [Considerations from switching the recovery model of your database](#). After switching to the recovery model Simple , you can shrink the log file. See the end of this blog how to do this.

What to do if your recovery model is: Simple?

Shrink the log file.

To set the recovery model to Simple you can run next query:

```
ALTER DATABASE
SET RECOVERY SIMPLE
```

To set the recovery model to FULL you can run next query:

ALTER DATABASE

SET RECOVERY FULL

How many free space is available in my log file?

- Select the database in the Object Explorer
- Point to **Tasks**, Point to **Shrink** and then click **Files**.
- Select File Type: **Log**
- **Currently allocated:** The current size of your log file
- **Available free space:** The free space in your log file

To shrink the log file:

- Select the database in the Object Explorer
- Point to **Tasks**, Point to **Shrink** and then click **Files**.
- Select File Type: **Log**
- Select Release unused space
- Press OK to start the shrink process. If you do not want to shrink the log file press the cancel button.

Svn update throws issuer not trusted

07 February 2024 13:43

```
/c/Users/laxmishhegde/Desktop/ta_deployer->svn update
Updating '':'
svn: E170013: Unable to connect to a repository at URL 'https://lausvn.temenosgroup.com/svn/devel/internal/ENV/Deployment/TA/ta\_deployer'
svn: E230001: Server SSL certificate verification failed: issuer is not trusted
/c/Users/laxmishhegde/Desktop/ta_deployer->

=====
/c/Users/laxmishhegde/Desktop/ta_deployer->svn update --trust-server-cert
```

TTI-Model Bank repository

13 February 2024 19:30

<https://lausvn.temenosgroup.com/svn/devel/products/TTIMB>

[devel - Revision 467591: /products/TTIMB/ESP/branches/9.5.1_MB/SP/IntegrationStudio/Full/TTI/flows \(temenosgroup.com\)](devel - Revision 467591: /products/TTIMB/ESP/branches/9.5.1_MB/SP/IntegrationStudio/Full/TTI/flows (temenosgroup.com))

Type-tree generation using JDBC to posgreSQL

16 February 2024 16:32

```
@set DTXHOME=C:\IBM\TransformationExtender_10.1.1
@set JAVA_HOME=%DTXHOME%\java
@set PATH=%DTXHOME%;%JAVA_HOME%\bin;%PATH%
@set CLASSPATH=%DTXHOME%\*;%DTXHOME%\tools\*;%DTXHOME%\extjar\postgresql-42.7.1.jar;%CLASSPATH%

java com.hcl.hip.tools.adapterdriver.TreeImporter com.hcl.hip.adapters.m4jdbc
"C:\KD_2024\PostgreSQL\table_Test.mtt" -url "jdbc:postgresql://vmlaulxora8:5432/CIP_LX_POSG_JB" -driver
org.postgresql.Driver -user postgres -password postgres -table map

-URL jdbc:postgresql://vmlaulxora8:5432/CIP_LX_POSG_JB?verifyServerCertificate=false&useSSL=false
-driver org.postgresql.Driver -USER postgres -PASSWORD postgres -LSN 0 -QTY s -QUERY 'select * from
aaamaindb.map' -TV

java com.hcl.hip.tools.adapterdriver.TreeImporter com.hcl.hip.adapters.m4jdbc
"C:\KD_2024\PostgreSQL\table_Test.mtt" -url
"jdbc:postgresql://vmlaulxora8:5432/CIP_LX_POSG_JB?currentSchema=public&-user=postgres&-PASSWORD=postgres
&-table=aaamaindb.map"

set DTXHOME=<tx_installation_directory>
set CLASSPATH=%DTXHOME%\*;%DTXHOME%\tools\*;<path_to_JDBC_driver_jar>
set JAVA_HOME=%DTXHOME%\java
set PATH=%DTXHOME%;%JAVA_HOME%\bin;%PATH%
```

I

Transact TAFJ commands

14 February 2024 14:39

```
-bash: ./users/dev/bin/get_ta_envt_info.sh: No such file or directory
-bash: export: '-Xmx512m': not a valid identifier
val@bngtplx2.temenosgroup.com:/users/val> MPT
bash: MPT: command not found...
val@bngtplx2.temenosgroup.com:/users/val> mp
bash: mp: command not found...
val@bngtplx2.temenosgroup.com:/users/val> mpt
val@bngtplx2.temenosgroup.com:/oams/int_e2e_apm> DBTools -u admin -p Temenos@1 -s JQL CLEAR-FILE F.TSA.STATUS;DBTools -u admin -p Temenos@1 -s JQL CLEAR-FILE F.BATCH.STATUS;DBTools -u admin -p Temenos@1 -s JQL CLEAR-FILE F.EB.EOD.ERROR;
Execute of CLEAR-FILE F.TSA.STATUS succeeded with output: |
Execute of CLEAR-FILE F.BATCH.STATUS succeeded with output: |
Execute of CLEAR-FILE F.EB.EOD.ERROR succeeded with output: |
val@bngtplx2.temenosgroup.com:/oams/int_e2e_apm> DBTools -u admin -p Temenos@1 -s JQL CLEAR-FILE F.TSA.STATUS;DBTools -u admin -p Temenos@1 -s JQL CLEAR-FILE F.BATCH.STATUS;DBTools -u admin -p Temenos@1 -s JQL CLEAR-FILE F.EB.EOD.ERROR;
Execute of CLEAR-FILE F.TSA.STATUS succeeded with output: |
Execute of CLEAR-FILE F.BATCH.STATUS succeeded with output: |
Execute of CLEAR-FILE F.EB.EOD.ERROR succeeded with output: |
val@bngtplx2.temenosgroup.com:/oams/int_e2e_apm> t
```

```
val@bngtplx2.temenosgroup.com:/oams/int_e2e_apm> DBTools -u admin -p Temenos@1 -s JQL LIST-ITEM F.JOB.LIST.1
Empty file: F.JOB.LIST.1|
```

TTI - MQ Console

15 February 2024 15:26

Credential admin/admin

```
1 NULL 15/02/2024
20:53:42 FIX ext_operation 1 NULL 41001 NULL 25001 bngtaplx7.temenosgroup.com 40002 /oams/int_e2e_mirab/TFI_TAP/maps/linux/TapToFix.mmc 3 0 0x0000000000000002 D1
903141027 35 0.000000 30 0 FIX_OrderToSend +10 RM_MANAGER1 NULL D1903141027 15/02/2024 20:53:34:000002 000400-009 NULL 15/02/2024
20:53:42:600922 NULL RM_MANAGER1 MKT_LSE 1 15/02/2024 GBP NULL 1 0 4.09 333 NULL NULL NULL NULL NULL IE0000730808 4
```

→ C ⌂ Not secure http://bngtaplx7.temenosgroup.com:8161/admin/queues.jsp
Temenos Links tutorial Hello World... Imported From IE Citrix Receiver Triple'A Plus Core D... LaxmishHegde - On... CM Status - R&D Pr... UTP Dashboard (de...)

ActiveMQ™

Home | Queues | Topics | Subscribers | Connections | Network | Scheduled | Send

Queue Name Create Queue Name Filter Filter

Queues:

Name	Number Of Pending Messages	Number Of Consumers	Messages Enqueued	Messages Dequeued	Views	Operations
fix2itf	0	5	0	0	Browse Active Consumers Active Producers  	Send To Purge Delete Pause
itf2fix	0	0	0	0	Browse Active Consumers Active Producers  	Send To Purge Delete Pause
tap2itf	1	0	1	0	Browse Active Consumers Active Producers  	Send To Purge Delete Pause

ActiveMQ™

Home | Queues | Topics | Subscribers | Connections | Network | Scheduled | Send

Browse tap2itf

Message ID	Correlation ID	Persistence	Priority	Redelivered	Reply To	Timestamp	Type	Operations
ID:bngtaplx7.temenosgroup.com-27537-1708010624489-1:1:1:1		Non Persistent	4	false		2024-02-15 20:53:44:715 IST		Delete

[View Consumers](#)

Mohammed Raitan, Sreya Sulluru

25:52

localhost : Message ID:bngtaplx7 X

Not secure | bngtaplx7.temenosgroup.com:8161/admin/message.jsp?id=ID%3Abngtaplx7.temenosgr...

Take control Pop out Chat People Raise React View Apps More

ActiveMQ™

The Apache Software Foundation <http://www.apache.org/>

Home | Queues | Topics | Subscribers | Connections | Network | Scheduled | Send Support | Logout

Browse tap2itf

Message ID	Correlation ID	Persistence	Priority	Redelivered	Reply To	Timestamp	Type	Operations
ID:bngtaplx7.temenosgroup.com-27537-1708010624489-1:1:1:1:1		Non Persistent	4	false		2024-02-15 20:53:44:715 IST		Delete

View Consumers

Copyright 2005-2023 The Apache Software Foundation.

Queue Views
Graph XML

Topic Views
XML

Subscribers Views
XML

Useful Links
Documentation FAQ Downloads Forums

3:25 PM

Show Hidden characters in vi/vim editors

16 February 2024 11:18

:set list

1 :set list

:1,\$!

```
<project name="V_REG_ORA_4">$  
$  
<!--Version Properties-->$  
<property name="ics.key"      ^Ivalue="TA"/>$  
<property name="ics.release"   ^Ivalue="23.1.12.A22 "/>$  
<property name="ics_release_ta" ^I^I^Ivalue="23.1.12.A22"/>$  
<property name="ics_release_lr" ^I^I^Ivalue="29.0.02"/>$  
$  
<property name="ics_release_ocs" ^I^Ivalue="23.1.10.A14"/>$  
<property name="ics_release_wsc" ^I^Ivalue="1.5.17"/>$  
<property name="ci_upgrade" ^I^I^Ivalue="23.1.12.A22"/>$  
$  
<!-- Database Properties -->$  
<property name="dsquery"          value="${ant.project.name}"/>$  
<property name="dbos_username"    value="oracle"/>$  
<property name="dbos_password"    value="geghuG48T"/>$  
<property name="db_host"          value="laulxqasrv1.temenosgroup.com"/>$  
<property name="db_path"          value="/oams/oracle/product/19.5/main"/>$  
<property name="db_username"      value="sys"/>$  
<property name="db_password"      value="manager"/>$  
<property name="db_port"          value="1521"/>$  
<property name="login_db"         value="aaalogindb"/>$  
<property name="main_db"          value="aaamaindb"/>$  
<property name="rep_db"           value="aaarepdb"/>$  
<property name="permssl_db"       value="permsslDb"/>$  
<property name="temptssl_db"      value="temptsslDb"/>$  
-- More --
```

:set nolist

1 :set nolist

dos2unix command usage

“dos2unix” conversion tool:

dos2unix -o a.txt b.txt

for a quick look at special chars, try this

```
:1,$l
```

the last character is an “ell” not a “one”

```
:1,$p prints the standard chars but not special
```

Tracing & Debug aaa export calls

19 February 2024 20:21

```
=====
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> export EXPORT_DEBUG=1
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa export -Uaaa -elist -Eportfolio -oACM_PTF_LIST_T1 -x
AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_export.sh -Uaaa

Exporting Entity : list ...
Output file is /oams/CIP_LX_ORA_JB1/aaahome/tmp/ACM_PTF_LIST_T1list_portfolio.imp
Call export_entity @entity='list', @parent_entity=NULL, @patriarch=, @sub_entity=portfolio, @ud_f=0, @filter_on_code='ACM~PTF~LIST~T1',
@filter_on_nature=NULL, @filter_on_attribute=NULL, @action_e=1, @package_definition_id=NULL,@debug=1;
DEBUG OUTPUT FILE is /oams/CIP_LX_ORA_JB1/aaahome/tmp/ACM_PTF_LIST_T1list_portfolio.imp
=====

aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> export EXPORT_DEBUG=2
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa export -Uaaa -elist -Eportfolio -oACM_PTF_LIST_T1 -x
AAAHOME is /oams/CIP_LX_ORA_JB1/aaahome
Executing /oams/CIP_LX_ORA_JB1/aaahome/bin/Linux/aaa_export.sh -Uaaa

Exporting Entity : list ...
Output file is /oams/CIP_LX_ORA_JB1/aaahome/tmp/ACM_PTF_LIST_T1list_portfolio.imp
Call export_entity @entity='list', @parent_entity=NULL, @patriarch=, @sub_entity=portfolio, @ud_f=0, @filter_on_code='ACM~PTF~LIST~T1',
@filter_on_nature=NULL, @filter_on_attribute=NULL, @action_e=1, @package_definition_id=NULL,@debug=2;
DEBUG OUTPUT FILE is /oams/CIP_LX_ORA_JB1/aaahome/tmp/ACM_PTF_LIST_T1list_portfolio.imp

export EXPORT_DEBUG=3
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome> ./aaa export -Uaaa -elist -Eportfolio -oACM_PTF_LIST_T1 -x

Content of trace file $AAAHOME/tmp/ACM_PTF_LIST_T1list_portfolio.imp as below:

CMD INSUPD script_definition list
ATT attribute_dict_id.entity_dict_id.sqlname_c attribute_dict_id.sqlname_c object_id.code object_id.entity_dict_id.sqlname_c nature_e dim_entity_dict_id.sqlname_c
script_ent_ref_dict_id.sqlname_c action_e rank_n definition_c
CMD INSUPD trading_constraint_script trading_constraint
ATT attribute_dict_id.entity_dict_id.sqlname_c attribute_dict_id.sqlname_c object_id.code object_id.begin_d nature_e dim_entity_dict_id.sqlname_c
script_ent_ref_dict_id.sqlname_c action_e rank_n definition_c
#EXEC export_entity @entity = 'list',@parent_entity = 'NULL',@patriarch = 'list',@sub_entity = 'portfolio',@ud_f = 0,@filter_on_code = 'ACM~PTF~LIST~T1',
@filter_on_nature = null,@filter_on_attribute = null,@action_e = 1,@package_definition_id = ,@debug = 2
#EXEC export_1_entity 'list','NULL',null,null,'list','portfolio',0,'ACM~PTF~LIST~T1',null,null,1,,2
#EXEC export_subset_1_entity 'list','NULL',null,null,'list','portfolio',1,0,'ACM~PTF~LIST~T1',null,0,null,1,,2
resolve_fk_iterative: 400005,'entity_dict_id',1101,'list','li',127,
resolve_fk_iterative: 400006,'currency_id',101,'list','li',127,
resolve_fk_iterative: 400008,'type_id',105,'list','li',127,
resolve_fk_iterative: 400014,'user_id',300,'list','li',127,
resolve_fk_iterative: 400018,'third_party_id',600,'list','li',127,
resolve_fk_iterative: 400019,'sub_type_id',105,'list','li',127,
resolve_fk_iterative: 400020,'business_type_id',105,'list','li',127,
resolve_fk_iterative: 400021,'business_subtype_id',105,'list','li',127,
resolve_fk_iterative: 400024,'data_secu_prof_id',301,'list','li',127,
resolve_fk_iterative: 400029,'business_unit_id',2580,'list','li',127,
#EXEC get_ATT_line ('list' , 'NULL' , 'list' , null , null , 1 , 1 , 0 , 0 );
-----
--- DUMP exp_sel_cols ---
id~col_name~datatype_dict_id~aaa_from_table_id~order_by_number
166~code~1~127~0'
167~name~14~127~null
168~denom~33~127~null
169~sqlname_c~21~128~1'
170~code~1~129~null
171~code~1~130~null
172~sqlname_c~21~132~null
173~sqlname_c~21~131~null
174~nature_e~5~127~null
175~validity_period~18~127~null
176~proc_name_c~21~127~null
177~historical_list_f~7~127~null
```

```

178~code~'21'~133~null
179~active_f~'7'~127~null
180~sub_nature_e~'5'~127~null
181~code~'1'~134~null
182~code~'1'~135~null
183~sqlname_c~'21'~137~null
184~sqlname_c~'21'~136~null
185~code~'1'~138~null
186~sqlname_c~'21'~140~null
187~sqlname_c~'21'~139~null
188~code~'1'~141~null

.....
***** DEBUG BEGIN statement *****
select 'DAT'|| NVL( li.code, 'NULL' )
||'~'|| NVL( li.name, 'NULL' )
||'~'|| NVL( replace( replace( li.denom, chr(92), '\\'), chr(10), '\n'), 'NULL' )
||'~'|| NVL( de1.sqlname_c, 'NULL' )
||'~'|| NVL( c1.code, 'NULL' )
||'~'|| NVL( t1.code, 'NULL' )
||'~'|| NVL( de2.sqlname_c, 'NULL' )
||'~'|| NVL( da1.sqlname_c, 'NULL' )
||'~'|| NVL( to_char( li.nature_e), 'NULL' )
||'~'|| NVL( to_char( li.validity_period), 'NULL' )
||'~'|| NVL( li.proc_name_c, 'NULL' )
||'~'|| NVL( to_char( li.historical_list_f), 'NULL' )
||'~'|| NVL( au1.code, 'NULL' )
||'~'|| NVL( to_char( li.active_f), 'NULL' )
||'~'|| NVL( to_char( li.sub_nature_e), 'NULL' )
||'~'|| NVL( tp1.code, 'NULL' )
||'~'|| NVL( t2.code, 'NULL' )
||'~'|| NVL( de3.sqlname_c, 'NULL' )
||'~'|| NVL( da2.sqlname_c, 'NULL' )
||'~'|| NVL( t3.code, 'NULL' )
||'~'|| NVL( de4.sqlname_c, 'NULL' )
||'~'|| NVL( da3.sqlname_c, 'NULL' )
||'~'|| NVL( t4.code, 'NULL' )
||'~'|| NVL( de5.sqlname_c, 'NULL' )

***** DEBUG BEGIN statement *****
select 'DAT'|| NVL( i1.code, 'NULL' )
||'~'|| NVL( case when to_char(inmksgat.begin_d, 'DD-MM-YYYY') = '31-12-9999' then 'null' else to_char(inmksgat.begin_d, 'DD-MM-YYYY') end, 'NULL' )
||'~'|| NVL( li1.code, 'NULL' )
||'~'|| NVL( de1.sqlname_c, 'NULL' )
||'~'|| NVL( mktstrdef1.code, 'NULL' )
||'~'|| NVL( case when to_char(mktstdh1.begin_d, 'DD-MM-YYYY') = '31-12-9999' then 'null' else to_char(mktstdh1.begin_d, 'DD-MM-YYYY') end, 'NULL' )
||'~'|| NVL( li2.code, 'NULL' )
||'~'|| NVL( de2.sqlname_c, 'NULL' )
||'~'|| NVL( case when to_char(inmksgat.end_d, 'DD-MM-YYYY') = '31-12-9999' then 'null' else to_char(inmksgat.end_d, 'DD-MM-YYYY') end, 'NULL' ) ||'~' as
export_value from instr_mktseg_attribution_evw inmksgat
inner join instrument_lvw i1 on inmksgat.instr_id = i1.id
left outer join mkt_seg_attribution_lvw mksegat1 on inmksgat.mkt_seg_attribution_id = mksegat1.id
inner join market_segment_def_lvw mktsegdef1 on inmksgat.market_segment_def_id = mktsegdef1.id
left outer join list_lvw li1 on mksegat1.list_id = li1.id
left outer join dict_entity_lvw de1 on li1.entity_dict_id = de1.dict_id
inner join market_structure_def_hist_lvw mktstdh1 on mktsegdef1.mkt_struct_def_hist_id = mktstdh1.id
inner join list_lvw li2 on mktsegdef1.list_id = li2.id
inner join market_structure_def_lvw mktstrdef1 on mktstdh1.market_structure_def_id = mktstrdef1.id
inner join dict_entity_lvw de2 on li2.entity_dict_id = de2.dict_id
where li1.code like 'ACM~_PTF~_LIST~_T1' escape '~'
order by i1.code nulls first, inmksgat.begin_d nulls first
***** DEBUG END statement *****

```

Show complete binary arguments in ps command

22 February 2024 10:39

```
cmsbm@lauLxc1:/users_nas/continuus/cmsbm> ps -ewwo pid,etime,cmd|more
```

```
5841 174-23:29:01 /bin/sh ./bin/mysqld_safe --datadir=/usr/local/mysql/data --pid-file=/usr/local/mysql/data/lauLxc1.pid
5954 174-23:29:01 /usr/sbin/rsyncd --daemon
5979 174-23:29:01 /usr/local/mysql/bin/mysqld --basedir=/usr/local/mysql --datadir=/usr/local/mysql/data --use
r=mysql --pid-file=/usr/local/mysql/data/lauLxc1.pid --skip-locking
5994 174-23:29:00 /usr/sbin/ntp -p /var/lib/ntp/var/run/ntp/ntp.pid -u ntp -i /var/lib/ntp
6019 174-23:29:00 /usr/sbin/sshd -o PidFile=/var/run/sshd.init.pid
6043 174-23:29:00 /usr/sbin/ypbind
6073 174-23:29:00 /usr/bin/postmaster -D /var/lib/pgsql/data
6116 174-23:29:00 /usr/lib/postfix/master
6174 174-23:29:00 /usr/sbin/cron
6177 174-23:29:00 qmgr -l -t fifo -u
6187 174-23:29:00 /usr/sbin/hald --daemon=yes --retain-privileges
6214 174-23:28:59 hald-addon-acpi
6241 174-23:28:59 /usr/sbin/powersaved -d -f /var/run/acpid.socket -v 3
6247 174-23:28:58 postgres: writer process
```

Outbox integration with TDH - Cloud native events

04 March 2024 20:08

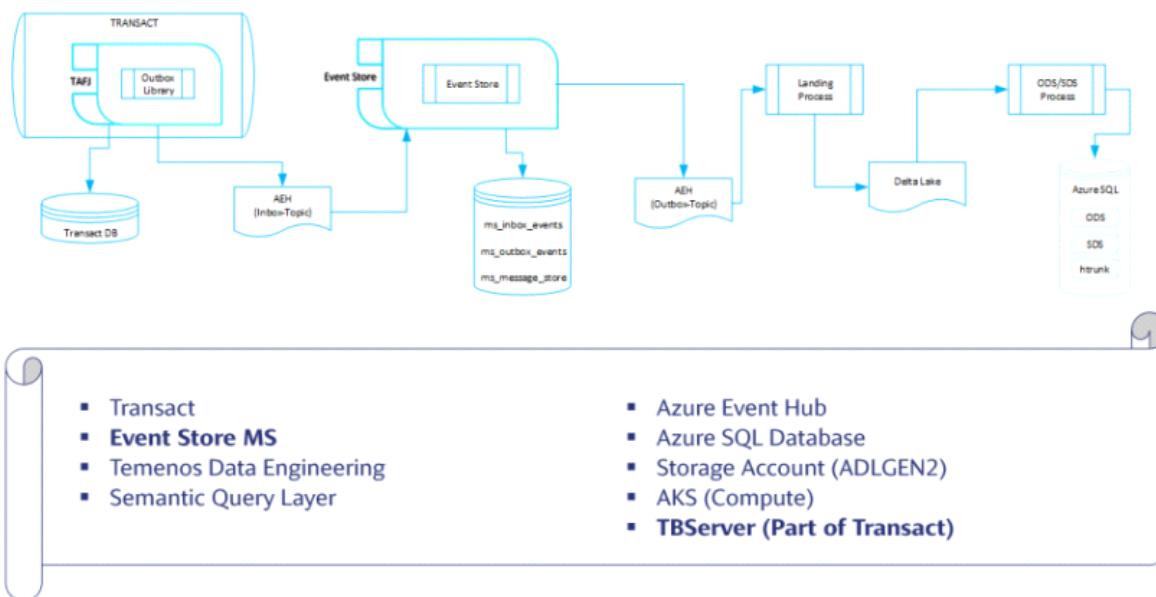
[Outbox Integration with TDH - Cloud Native Events - Temenos Data Lake - Confluence PROD](#)

[Transact Outbox for the AKS with the Eventstore configuration - Event Streaming - Confluence PROD \(temenos.com\)](#)

7.2 Architecture

Below architecture diagram helps to understand how data flows in the new Outbox architecture.

Outbox Architecture



DES Architecture is also shown to understand the difference between Outbox Vs DES architecture.

Hostcomp setup

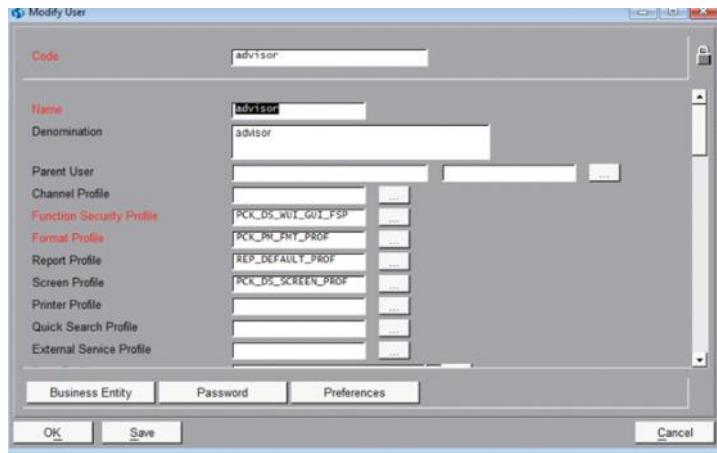
08 March 2024 10:29

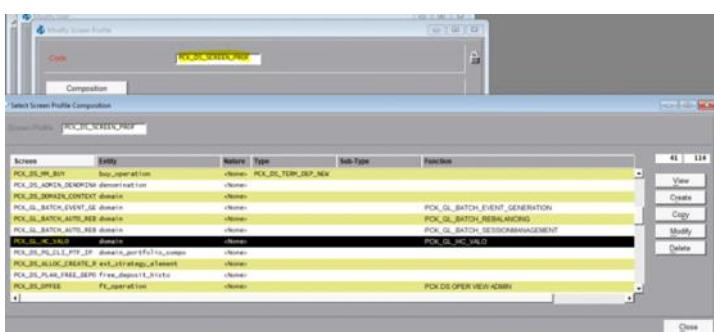
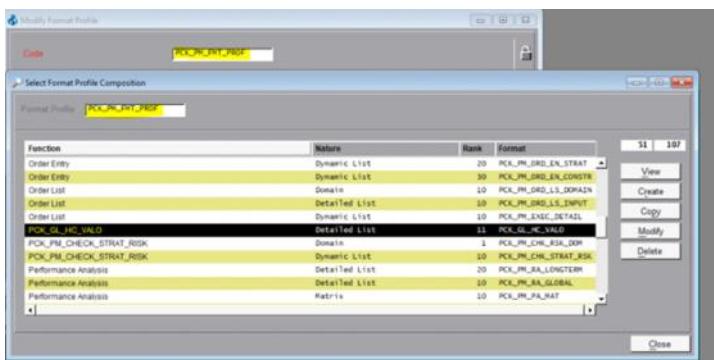
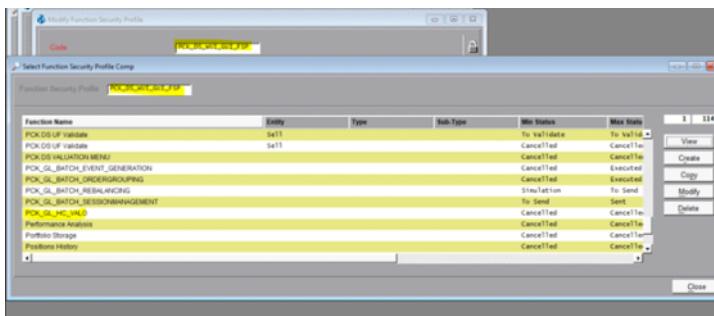
1. Non Messi Environment
2. Login GUI
3. Version details - TA 26.10.27
4. Create an Investment Operation and a Locking operation in the TEST_PTF Portfolio.
5. Mapped the TEST_PTF Portfolio to the portfolio list HC_PTF_LIST and Instrument TEST_ISIN to the instrument List HC_ISIN_LIST.

6. advisor user is going to be used while running the hostcomp service.
7. In the User – 'advisor', In the FSP(PCK_DS_WUI_GUI_FSP), include the function – PCK_GL_HC_VALO. Include the 'Create Flag', just in case nothing goes wrong.
8. In Format Profile – Include PCK_GL_HC_VALO and also include for the screen profile.
9. In TAP, the initial configurations are as follows. There is a connection required for submit bpi job for which the off-shell path is required.
10. In aaa_install.cfg – set the OCS_REMOTE_URL. - <https://laulxqasrv2.temenosgroup.com:20051/admin/secured/run/offShell> (sample one)
11. Now, goto \$AAAHOME/config
12. Update the pass_store.properties. Delete the existing password that has been encrypted and now update the new password.
13. In GUI, Administration->Security->Parameter, ENABLE_COSTEFFECTIVE_LOCKING parameter value should be 0.
14. Go to \$AAAHOME/hostcomp/bin and execute the HCBATCH command. Below is the sample one.
./host_comp_batch -H ./config/host_comp_batch.properties -U aaa -u advisor
15. export AAASSLHOSTNAMEVALIDATION=0

From <<https://teams.microsoft.com/v2/>>

STEP	Description	Issue
HCVAL	Perform portfolio list valuation and save the result in the hc_fo_position table	<ul style="list-style-type: none">criticality in having synchronous responses between two worlds (linux and openshift) and also connecting container and "linux" machines.error executing the query you are making from the OCS Server due to columns from the list view [list_vw] [TSR-716808 was opened for this point]
LOAD	Reads the input file and saves to the hc_bo_position table	encountered a BCP Load Failed issue when testing the LOAD function [TSR-746874 was opened for this point]
HCDIFF	Compare the differences between the hc_fo_position and hc_bo_position tables	not tested due to error/lack of functionality in previous steps
HCERRPT F	Generates errors on portfolio	not tested due to error/lack of functionality in previous steps
HCREP	Generate reports	not tested due to error/lack of functionality in previous steps





Changed the ocs remoting URL in aaa_install.cfg file and encrypted the password in pass_store.properties files.

Earlier the highlighted URL was none.

Hence, I have inputted the OCS URL of this environment.

```

V <PDBNAME> V_SCB_ORA Pluggable name , only usefu
l if <PDB> is set to TRUE
V <DISPLAY> UNDEFINED Display_for_Installation
V <ENABLE_SECURED_GRID> 0 Securisation_of_entity_grid_enabled
V <ENABLE_SECURED_CLASSIF> 0 Securisation_of_entity_classification_enabled
V <ENABLE_MULTI_TASC_LOGIN> 0 Managing_of_multi_tasc_login_enabled
V <ENABLE_ADDITIONAL_DSP> 1 Managing_of_additional_data_security_profile_enabled
V <MASTER_BUSINESS_ENTITY> NONE Master Business Entity For Multi-Entity configuration
V <IDENTITY_CACHE_SIZE> 1000 Cache size for identity columns
V <IDENTITY_INCREMENT> 1 Default increment for identity columns
V <IDENTITY_REVERSE_IDX> FALSE To defined all the indexes on ident
ity column as reverse index.
V <DEFAULT_INTRANS_VALUE> 10 Default Initial Transaction
Slots value
V <OCS REMOTING_URL> https://laulxqasrv2.temenosgroup.com:20051/admin/secured/run/otfShell
URL to trigger Submit-bpi service. Example: https://<server_ip>/admin/secured/run/otfShell
V <TNS_ADMIN> DEFAULT Default Value is oraclehome/network/admin. Modify to reset
the Default
V <JDBC_CONNECTION_STRING> jdbc:oracle:thin:@laulxqasrv2.temenosgroup.com:1521/V_SCB_ORA UR
L to connect to DB from JAVA Code of Host Comparison. Example: jdbc:oracle:thin:@<db_host_name>:<db_port_num>/<servi
ce_name>
V <AAADDLGENMTSIZE> 1 DDL Generator multi-threading size (number of threads used
for build DDL objects)
#
#####
#
# ORACLE_SERVER_TRIPLEA_DATAFILE_SECTION
#
# Each line must begin with a 'D' character.
# Additional lines may be added.
# Only the Device_Name, Physical_Name, Vdevno and Size_(Mb) may be modified.
# Define the devices option configuration you want:

```

```
val@laulxqasrv2:/oams/v_scb_ora/aaa/current/config$ ls
aaa_srv.ini log4cplus.properties pass_store.properties
val@laulxqasrv2:/oams/v_scb_ora/aaa/current/config$ vi pass_store.properties
aaa={platform-codec-v1}zsq8Po+0m3Q=
advisor={platform-codec-v1}raeocRVALL4=
tasc={platform-codec-v1}FySyahIlYTz8b6r7LsWm9A==
```

Executing the HCBATCH Command.

```
/host comp batch -H /config/host comp batch properties -I aaa -U advisor
```

```
val@lau1xqasrv2:/oams/v_scb_ora/aaa/current/hostcomp/bin$ host_comp_batch -H ./config/host_comp_batch.properties>

14.09.2022 13:45:15 HC_BATCH INFO : Executing Host Comparison Batch
14.09.2022 13:45:15 HC_BATCH INFO : Log File: /oams/v_scb_ora/aaa/current/hostcomp/log/hc_batch.71435.log

14.09.2022 13:45:15 HC_BATCH INFO : Reading Host Comparison Properties File
14.09.2022 13:45:15 HC_BATCH INFO : File ( ./config/host_comp_batch.properties )
14.09.2022 13:45:15 HC_BATCH INFO : Loaded Properties
14.09.2022 13:45:15 HC_BATCH INFO : Identifying Inputs From Properties File, For Host Comp Services
14.09.2022 13:45:15 HC_BATCH INFO : BUSINESS_ENTITY: NONE
14.09.2022 13:45:15 HC_BATCH INFO : COMPARISON_DATE: 14/09/2022
14.09.2022 13:45:15 HC_BATCH INFO : DATASET_KEY_BO: B0140922014515
14.09.2022 13:45:15 HC_BATCH INFO : DATASET_KEY_FO: F0140922014515
14.09.2022 13:45:15 HC_BATCH INFO : PORTFOLIO_LIST: HC_PTF_LIST
14.09.2022 13:45:15 HC_BATCH INFO : CONTROL_FILE: /oams/v_scb_ora/aaa/current/hostcomp/config/hc_bo_load.ctl
14.09.2022 13:45:15 HC_BATCH INFO : INPUT_FILE: /oams/v_scb_ora/aaa/current/hostcomp/T24/HCDAT.dat
14.09.2022 13:45:15 HC_BATCH INFO : DATA_APPEND_MODE: INSERT_HC1
14.09.2022 13:45:15 HC_BATCH INFO : OCS_BATCH_USER: advisor
14.09.2022 13:45:15 HC_BATCH INFO : TIMEOUT: 3600
14.09.2022 13:45:15 HC_BATCH INFO : POSITION_DATE: NONE
14.09.2022 13:45:15 HC_BATCH INFO : PPS_TYPE: NONE
```

```

14.09.2022 13:45:15 HC_BATCH INFO : COMPARISON_FIELDS: ALL
14.09.2022 13:45:15 HC_BATCH INFO : DATASET_KEY_BO: B0140922014515
14.09.2022 13:45:15 HC_BATCH INFO : DATASET_KEY_F0: F0140922014515
14.09.2022 13:45:15 HC_BATCH INFO : GEN_OFS_MSG: 1
14.09.2022 13:45:15 HC_BATCH INFO : ERROR_TYPE: 1
14.09.2022 13:45:15 HC_BATCH INFO : DATA_SEPARATOR: ~
14.09.2022 13:45:15 HC_BATCH INFO : OUTPUT_DIR: /oams/v_scb_ora/aaa/current/hostcomp/hcoutput
14.09.2022 13:45:15 HC_BATCH INFO : SCOPE: ALL
14.09.2022 13:45:15 HC_BATCH INFO : PORTFOLIO_LIST: HC_PTF_LIST
14.09.2022 13:45:15 HC_BATCH INFO : DATASET_KEY_BO: B0140922014515
14.09.2022 13:45:15 HC_BATCH INFO : DATASET_KEY_F0: F0140922014515
14.09.2022 13:45:15 HC_BATCH INFO : OUTPUT_DIR: /oams/v_scb_ora/aaa/current/hostcomp/hcoutput
14.09.2022 13:45:15 HC_BATCH INFO : HC_ENABLE_COSTEFFECTIVE_LOCKING_FLG: NONE
14.09.2022 13:45:15 HC_BATCH INFO : HC_FWD_ACC_FLAG: NONE
14.09.2022 13:45:15 HC_BATCH INFO : HC_VAL_USE_PPS: 0
14.09.2022 13:45:15 HC_BATCH INFO : HC_MERGE_POSITION_SET: NO

14.09.2022 13:45:15 HC_BATCH INFO : Executing AAA LOAD Service To Load Back Office Data

# AAALOAD #
#
# 14.09.2022 13:45:15 Msg INFO: Begins...
# 14.09.2022 13:45:15 Msg INFO: Log File: /oams/v_scb_ora/aaa/current/tmp/loader/log/HCDAT.dat.71550.log
#
# 14.09.2022 13:45:15 Msg WARNING: Inputs provided in command line takes precedence over the values defined in control file
#
# 14.09.2022 13:45:16 Msg INFO: Preparing Database Information
# 14.09.2022 13:45:16 Msg INFO: Table Name : hc_bo_position
# 14.09.2022 13:45:16 Msg INFO: Input File : /oams/v_scb_ora/aaa/current/hostcomp/T24/HCDAT.dat
# 14.09.2022 13:45:16 Msg INFO: Control File : /oams/v_scb_ora/aaa/current/hostcomp/config/hc_bo_load.ct

```

```

# 14.09.2022 13:45:16 Msg INFO: Preparing To Load
# 14.09.2022 13:45:16 Msg INFO: Data append mode : INSERT_HC1
# 14.09.2022 13:45:16 Msg INFO: Invalidating old data
# 14.09.2022 13:45:18 Msg INFO: Generating new dataset
# 14.09.2022 13:45:19 Msg INFO: Dataset Key : B0140922014515
# 14.09.2022 13:45:21 Msg INFO: Formatting Data File
#
# 14.09.2022 13:45:21 Msg INFO: Loading In Progress
# 14.09.2022 13:45:23 Msg INFO: Completed
#
# 14.09.2022 13:45:23 Msg INFO: Must check /oams/v_scb_ora/aaa/current/tmp/loader/log/hc_bo_position.71550. if there are errors/warnings
#
# 14.09.2022 13:45:23 Msg INFO: Data Loaded Successfully
#
4.09.2022 13:45:24 HC_BATCH INFO : Successfully Executed The Service AAALOAD
4.09.2022 13:45:24 HC_BATCH INFO : Executing Host Comparison Service HCVAL

# HCVAL #
#
# 14.09.2022 13:45:24 Msg INFO: POSITION DATE
# 14.09.2022 13:45:28 Msg INFO: Preparing to Compute and Valuate...
# 14.09.2022 13:45:28 Msg INFO: Invalidating old data...
# 14.09.2022 13:45:30 Msg INFO: Generating new dataset

```

```

# HCVAL #
#
# 14.09.2022 13:45:24 Msg INFO: POSITION DATE
# 14.09.2022 13:45:28 Msg INFO: Preparing to Compute and Valuate...
# 14.09.2022 13:45:28 Msg INFO: Invalidating old data...
# 14.09.2022 13:45:30 Msg INFO: Generating new dataset
#
# 14.09.2022 13:45:31 Msg INFO: Dataset Key : <F0140922014515>
# 14.09.2022 13:45:33 Msg INFO: Launching Valuation Fin Service...
#
# 14.09.2022 13:45:33 Msg INFO: Position Set: Position
#
# 14.09.2022 13:47:44 Msg INFO: Valuation Fin Service Successful
#
# 14.09.2022 13:47:44 Msg INFO: Host Comp Post Processing Successful
#
# 14.09.2022 13:47:47 Msg ERROR: Failed To Load Valuation Results
#
# 14.09.2022 13:47:47 Msg INFO: Log File is /oams/v_scb_ora/aaa/current/hostcomp/log/hcval-14092022134524.log.7054

4.09.2022 13:47:47 HC_BATCH ERROR : Error While Executing The Service HCVAL
al@lauixqasrv2:/oams/v_scb_ora/aaa/current/hostcomp/bin$ 

```

AAAHOME> ./aaa HCVAL -U advisor -p PCK_DS_ALL_PTF -u v_reg_ora_m2aaa -K MY_KEY

Invoking HCVAL command from curl:

```
tuqpzt1aaa@usqpzt1001:~ # date ; curl -u advisor:advadv --header "Content-Type: application/json" --insecure --request POST --data '{"command": "submit-bpi-job -D portfolioDim=2 -D portfolioObjectCode=HVB_PL_HOST_COMP -t 3600 -w ts1-execute-valo.xml"}' https://tap-web-t1.apps.Ocp-test.unicreditgroup.eu/admin/secured/run/otfShell ; date
Wed May 22 10:52:21 CEST 2024
curl: (52) Empty reply from server
Wed May 22 11:52:21 CEST 2024
tuqpzt1aaa@usqpzt1001:~ #
```

```
#!/bin/bash

if [ $# -ne 1 ]
then
echo "Usage : $0 <Business Entity>"
exit 10
fi

B=$1
curl_file="/tmp/prec(curl"
out_file="/tmp/prec.$B.out"

run_inst=$B

prep "$B" curl_file > $curl_file.$run_inst

bash $curl_file.$run_inst > $out_file 2> /dev/null

grep '[0-9]' $out_file | awk '{print $3}' > $out_file.2

still_running=1

while [ $still_running -eq 1 ]
do
echo "*****"
echo "pulling jobs status for Business entity $B"
echo "*****"
still_running=0
while read job
do
curl_cmd="`GET 'https://mrdbwdev2.mrdbwch.tennencloud.com/sysop/api/v1.0/sysop/jobBatch/s(job)?be=$B' -H 'accept: application/json' -u 'advisor:advadv'`"
#echo "====curl -X $curl_cmd > $out_file.$job(curl"
#echo "curl -X $curl_cmd > $out_file.$jobcurl
bash $out_file.$jobcurl > $out_file.$job 2> /dev/null
jobSummary=$(grep "jobSummary" $out_file.$job | sed -e 's/[\\n\\r]/\\n/g' | cut -d ' ' -f 2)
jobStatus=$(grep "status" $out_file.$job | sed -e 's/[\\n\\r]/\\n/g' | cut -d ' ' -f 2) sed -e 's/[\\t]/\\n/g'
#echo "#### jobStatus = $jobStatus"
if [[ $jobStatus == "RUNNING" ]] || (( $jobStatus == "PENDING" ))
then
still_running=1
echo "Job $job, $jobSummary is still $jobStatus, on Business entity $B"
else
echo "Job $job, $jobSummary is $jobStatus, on Business entity $B"
fi
done < $out_file.2

echo "*****"
if [ $still_running -eq 1 ]
then
sleep 30
fi
done

rm -f $out_file
rm -f $curl_file.$run_inst

exit 0
```

```
{"command":"submit-bpi-job -D portfolioDim=2 -D portfolioObjectCode=HCVALTESTS -t 3600 -w tsl-execute-valo.xml","businessEntity":"HKG"}  
V REG ORA M2
```

<http://www.ijerpi.net>

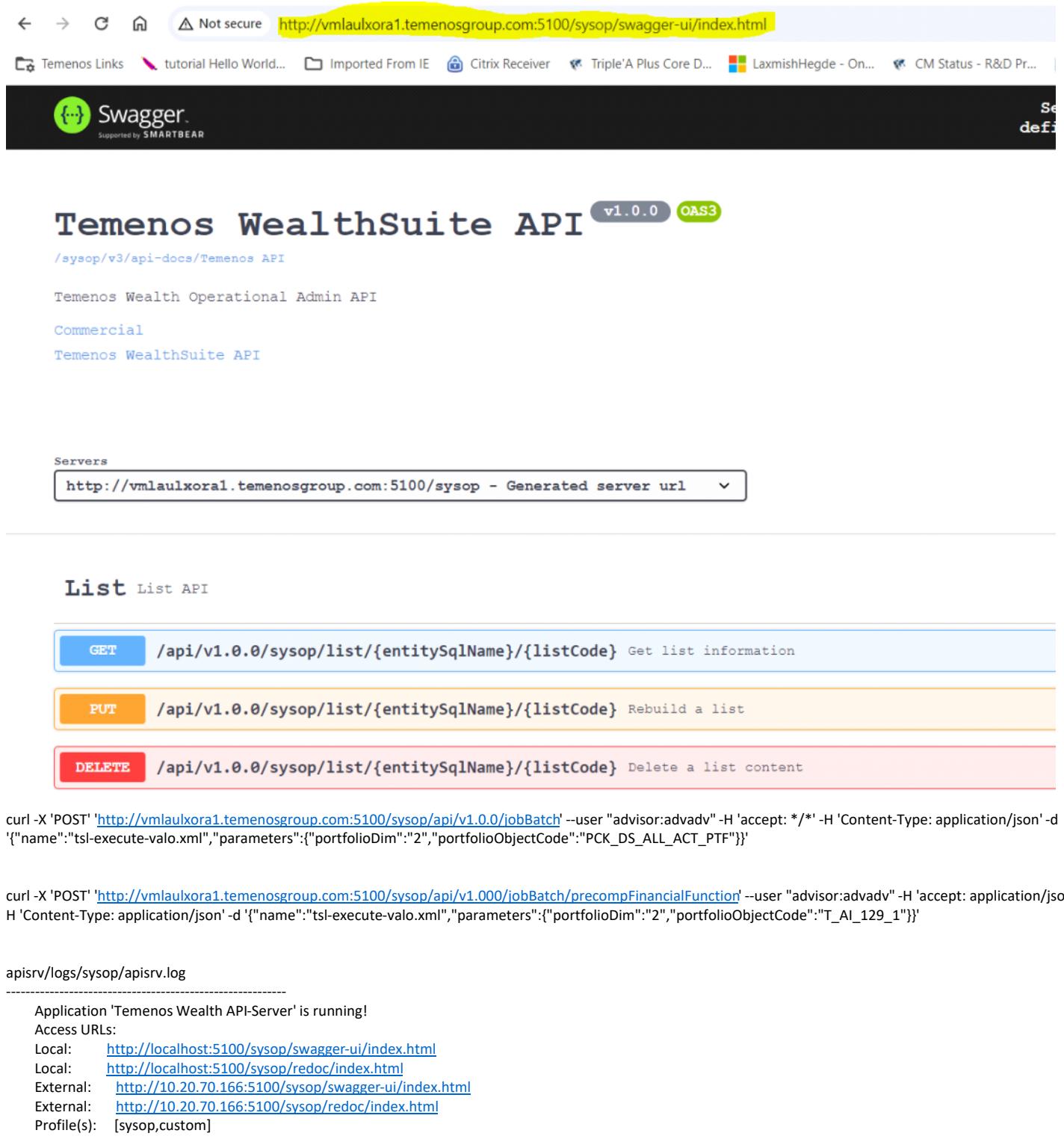
application.properties
<http://localhost:11> 17152/

```

logging.level.root=debug
logging.level.com.temenos.ws.api.service=debug
logging.level.org.hibernate=debug

aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome/apisrv> sysop-api.sh status
sysop-srv is running, PID=26945
aaa@vmlaulxora1:/oams/CIP_LX_ORA_JB1/aaahome/apisrv>

```



```

GET /api/v1.0.0/sysop/list/{entitySqlName}/{listCode} Get list information
PUT /api/v1.0.0/sysop/list/{entitySqlName}/{listCode} Rebuild a list
DELETE /api/v1.0.0/sysop/list/{entitySqlName}/{listCode} Delete a list content

```

```

curl -X 'POST' 'http://vmlaulxora1.temenosgroup.com:5100/sysop/api/v1.0.0/jobBatch' --user "advisor:advadv" -H 'accept: */*' -H 'Content-Type: application/json' -d '{"name":"tsl-execute-valo.xml","parameters":{"portfolioDim":"2","portfolioObjectCode":"PCK_DS_ALL_ACT_PTF"}}'

curl -X 'POST' 'http://vmlaulxora1.temenosgroup.com:5100/sysop/api/v1.000/jobBatch/precompFinancialFunction' --user "advisor:advadv" -H 'accept: application/json' -H 'Content-Type: application/json' -d '{"name":"tsl-execute-valo.xml","parameters":{"portfolioDim":"2","portfolioObjectCode":"T_AI_129_1"}}'

```

apisrv/logs/sysop/apisrv.log

```

Application 'Temenos Wealth API-Server' is running!
Access URLs:
Local: http://localhost:5100/sysop/swagger-ui/index.html
Local: http://localhost:5100/sysop/redoc/index.html
External: http://10.20.70.166:5100/sysop/swagger-ui/index.html
External: http://10.20.70.166:5100/sysop/redoc/index.html
Profile(s): [sysop,custom]

```

Outbox references - TDH specifications

06 March 2024 22:32

KD-21024

<https://cloudevents.io/>

<https://github.com/cloudevents/spec/blob/main/cloudevents/formats/cloudevents.json>

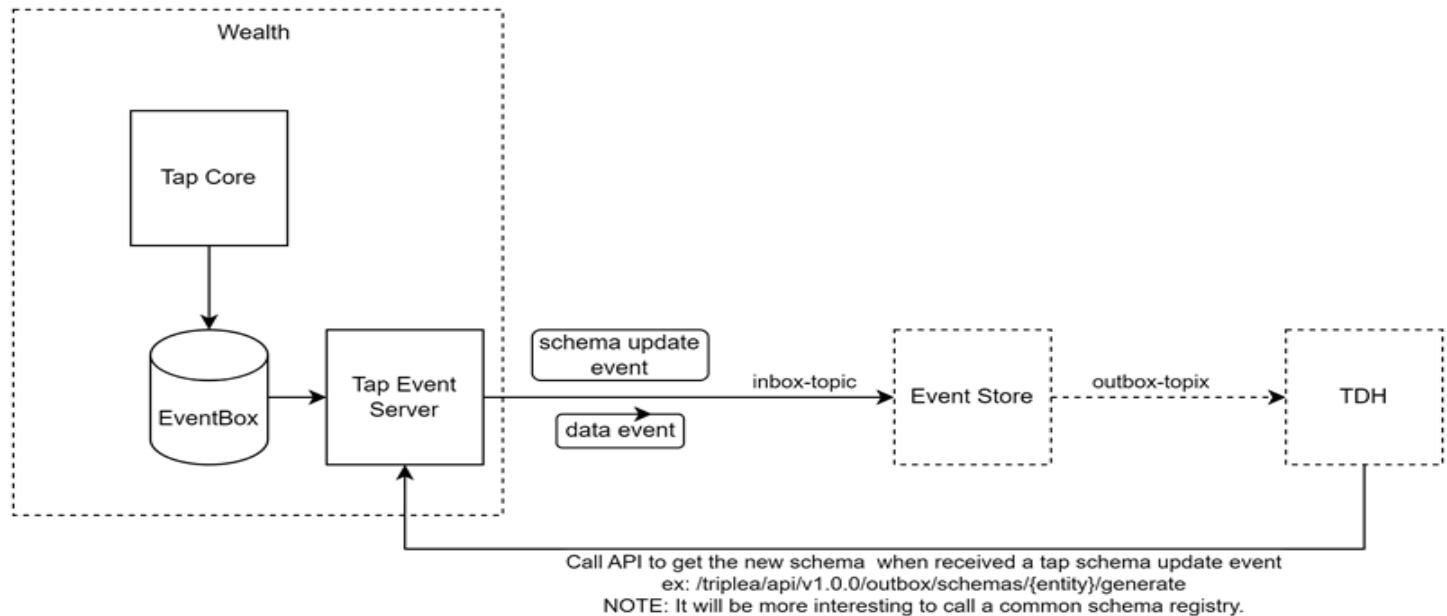
NOTE: All schema are compliance with the latest specs <https://json-schema.org/draft/2020-12/schema>

See <https://json-schema.org/learn/getting-started-step-by-step>

online validators :

<https://www.liquid-technologies.com/online-json-schema-validator>

<https://www.jsonschemavalidator.net/> - Reference



<https://json-schema.org/>

TAP Outbox and TDH - High Level Solution Document - Temenos Data Lake - Confluence PROD

<https://confluence.temenos.com/display/DES/Transact+Outbox+for+the+EKS+with+the+Eventstore+configuration>

<https://confluence.temenos.com/display/TDL/Outbox+Integration+with+TDH+-+Cloud+Native+Events>

[events \(temenos.com\)](#)

Cloud event Details:

<https://github.com/cloudevents/spec/blob/v1.0/spec.md>

Details of the header keywords:

https://docs.temenos.com/docs/Solutions/Technology/Integration_Framework/Outbox/Outbox/Misc/Overview.htm#



Set

Outbox

- Design Principles
- Streaming Solution using Outbox
- Message Formats
- ILP In Outbox with Kafka and Eventstore
- Business Event in Outbox

Outbox

Transact in conjunction with TAFJ and Outbox libraries emits the cloud event, consumed by the consumers such as TDH, Party MS, Holdings MS, and FCM in R24. With critical banking data, this ensures that the data is consistent and accurate and the system works without losing any events. The architecture of Outbox is designed by applying various data patterns in the industry to accommodate business needs with faster time-to-market and handle larger requests.

In this topic

Outbox

Design Principles

This topic explains the design principles for Outbox.

Streaming Solution using Outbox

This topic explains the features and components of the streaming solution.

Message Formats

This topic explains the format of cloud events.

ILP In Outbox with Kafka and Eventstore

This topic explains the configuration for ILP in Outbox.

Business Event in Outbox

This topic explains the business events in Outbox.

https://developer.temenos.com/events/event-explorer/?\$0=events%3A352

Events

Temenos Exchange Contact Us

LOG IN

Welcome / Events / Event Explorer

Event Explorer

Discover the simplicity and power of Temenos events. Click Explore to view the characteristics and structure of individual events, then download the event.json file.

Events Quick Guide Events Catalog

Event Explorer

Search

Events Category

- ACCOUNT SERVICE
 - Notice management
- BUNDLE
- CREDIT LIMIT
- CURRENT ACCOUNT

Account Service

Notice Management

Dao Alerts Subscribed

subscribeAlerts.daoAlertsSubscribed

Explore

Swagger link:

<http://localhost:19080/triplea/swagger-ui/index.html>
https://wealth.temenosgroup.com/delivery/incoming_packages/

A https://www.liquid-technologies.com/online-schema-to-json-converter

Support JIRA Corporate Jira Login Focal Point Debugging with GDB Temenos Links & Si... git commands Laxmish Hegde - On... Web Slice Gallery Debugging with GDB Manu sales@liquid-technologies.com Sign In / Register Shopping Cart 0

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Video Tutorial

Creates a JSON Document that will validate against a JSON Schema.

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JSON Schema

```
627 },
628   "grid_id": {
629     "type": "string",
630     "maxLength": 20
631   }
632 },
633   "required": [
634     "grid_id"
635   ]
636 }
637 }
638 }
639 }
```

Application Parameters:

1. DES_ENABLED = 1
2. OUTBOX_EVENT_MODE
0 None
1 based on dict_entity.audit_e=2
2 based on dict_entity.audit_e=2 and subscription with nature_e = Outbox Event

4Eye Validation Configuration, technical implementation

06 March 2024 14:31

1. <https://lausvn.temenosgroup.com/svn/devel/projects/doc/active/WealthSuite/17.11/03>. Construction (Design)/Channel/BNG-User & Manager administration in Channel-PRO-314
2. <https://lausvn.temenosgroup.com/svn/devel/projects/doc/active/WealthSuite/18.01/03>. Construction (Design)/KD-3903_UserAdmin4eyes

aaa_bpi infrastructure

08 March 2024 12:24

/oams/m_rhel_ora_1/aaa/current/bin/Linux->./aaa_bpi64

WebService URL is Mandatory

usage: aaa bpi -U <user_batch> -I <URL> -u <user> -x <batchXml>

[-D <data_args>] [-c <business entity>] [-t <timeout>] [-w]

with <-U> : User Batch

<-I> : Url of the webservice to be triggered.

<-u> : Application User

<-D> : Data args to be sent to submit-bpi-job

NOTE: -D argument can be used multiple times

<-t> : Web Service Timeout

<-x> : Batch XML for submit-bpi-job

<-w> : Async/Sync Mode for submit bpi

Default -> Async

<-v> : display the application version

<-V> : display environment variables

<-c> : Business Entity (only use with multi-entity configuration)

<business entity> : Business entity to use

/oams/m_rhel_ora_1/aaa/current/bin/Linux->

OCS - On Boarding collaterals

11 March 2024 12:08

[devel - Revision 469789: /projects/doc/active/WealthSuite/TAP_Onboarding \(temenosgroup.com\)](#)

[devel - Revision 469789: /projects/doc/active/WealthSuite/TAP_Onboarding/OCS \(temenosgroup.com\)](#)

[https certificate configuration at TA-Core](#)

11 March 2024 09:41

httpclient.cpp:

Certificate configuration and environment settings:

```
CLIENT_CERT_FILE  
CLIENT_KEY_FILE  
CLIENT_TRUSTSTORE_FILE  
CLIENT_SSL_PASSCODE  
AAASSLHOSTNAMEVALIDATION  
AAAHTTPCLIENTREADONESHOOT  
  
AAAHTTPCLIENTLOGFILE  
AAAHTTPCLIENTPROXY
```

ocs - otf-shell command - avro schema generation - DES

Thursday, March 14, 2024 10:59 AM

```
:> login -u advisor -p advadv
```

```
:> update-outbox-schema
```

```
- otf-shell/src/main/java/com/odcgroup/otf/shell/SyncAvroSchema.java
```

```
    getShell().getConsole().printf("Synchronizing outbox schemas...");
```

```
    AvroSchemaRepository portfolioPrecompJobFormatsRepository = avroSchemaBuilderService.buildPrecompFormatSchemas(ENTITY_PORTFOLIO);
    outboxSchemaManageService.saveSchemas(portfolioPrecompJobFormatsRepository, OutboxSchemaDAO.NatureE.TSLExtension);
```

```
    AvroSchemaRepository tslExtensionRepository = avroSchemaBuilderService.buildAllEntitySchemas();
    outboxSchemaManageService.saveSchemas(tslExtensionRepository, OutboxSchemaDAO.NatureE.TSLExtension);
```

```
    AvroSchemaRepository subSchemaRepository = avroSchemaBuilderService.buildSubscriptionSchemaOfNatureOutbox();
    outboxSchemaManageService.saveSchemas(subSchemaRepository, OutboxSchemaDAO.NatureE.Subscription);
```

```
    getShell().getConsole().printf(" Synchronizing outbox schemas completed ");
```

```
} catch (Exception e) {
    getShell().getConsole().printf("Problem while Synchronizing outbox schemas" );
    e.printStackTrace();
    return 1;
}
```

```
/otf/otf-shell/src/main/resources/META-INF/spring/admin/applicationContext-otf-shell.xml
/otf/otf-shell/src/test/resources/META-INF/spring/client/applicationContext-otf-shell.xml
```

```
./develop/tsl-avro/src/main/java/com/temenos/triplea/avro/service/AvroSchemaBuilderService.java
./develop/tsl-metadict/src/main/java/com/temenos/triplea/core/metadict/MetadictLoader.java
```

enabling debug port in ocs

Friday, March 15, 2024 3:13 PM

1. otf-shell.cmd

Uncomment line

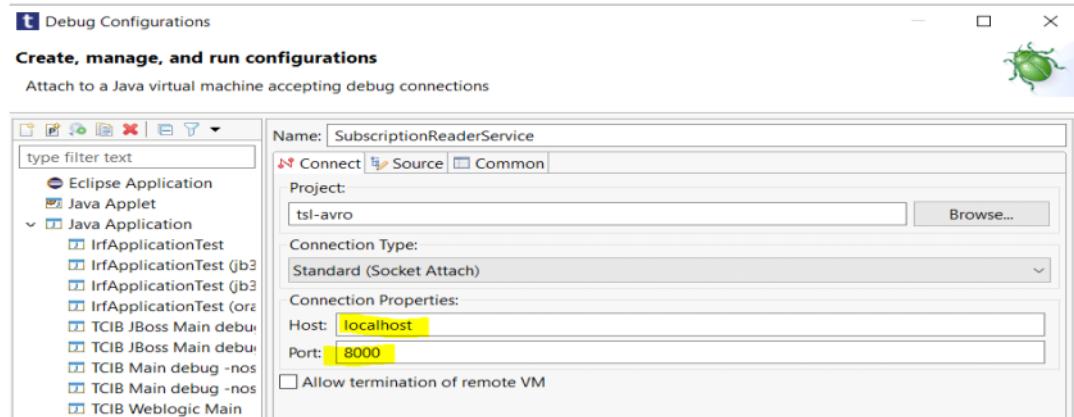
```
set JVM_OPTIONS=-Xdebug -Xrunjdwp:transport=dt_socket,server=y,address=8989,suspend=n %JVM_OPTIONS%
```

2. ocs server. For JBOSS and WildFly,

w:/EDSW/OCS/CIP_LX_ORA_JB3/CIP_LX_ORA_JB3-instance/start.sh or start.cmd

Uncomment: export DEBUG_OPTIONS="--debug 8585

3. Standalone java application: Remote debugging section



Design studio package for IDE & debugging

01 April 2024 14:53

/nas/delivery/incoming_packages/SDK-DS/202403.0.0/Core/DesignStudioTAP-noBinaries-202403.0.0.zip

DES References & Distribution

16 March 2024 14:29

Installation Guide for DES: <http://rd.temenosgroup.com/browse/OCS-54106>

[PRO-13718](#) OPEN - KD-17723_REQ79220_DES support for TAP (wealth) From <<http://rd.temenosgroup.com/browse/OCS-54106>>

<http://rd.temenosgroup.com/browse/PRO-14177> Mirabaud_KD-23248_REQ117336_TAP Integrate to DES to push event message for Alerts

https://lausvn.temenosgroup.com/svn-devel/documentation/OCS/branches/DEV.0.0/products/manuals/Installation%20Guides/FrontOffice_DES_InstallationGuide.docx

From <<http://rd.temenosgroup.com/browse/OCS-54106>>

<http://maven.temenosgroup.com/content/repositories/t24-releases/com/temenos/des/des-release/data-event-streaming/202207.0.0/>

<http://maven.temenosgroup.com/content/repositories/t24-releases/com/temenos/des/des-release/data-event-streaming/202403.0.0/>

Standalone:

Confluent package 5.2.2: <http://packages.confluent.io/archive/5.2/confluent-community-5.2.2-2.11.zip>

Docker:

Kafka 5.2.2: <https://hub.docker.com/r/confluentinc/cp-kafka>

Zookeeper 5.2.2: <https://hub.docker.com/r/confluentinc/cp-zookeeper>

Schema registry 5.2.2: <https://hub.docker.com/r/confluentinc/cp-schema-registry>

Note: If Kafka to be deployed in standalone mode, at this moment, Confluent is supported for development only on Windows, not for production environments.

<https://www.confluent.io/blog/set-up-and-run-kafka-on-windows-and-wsl-2/>

Plain java application with debugging on commandline

Monday, March 18, 2024 6:08 PM

```
$ java -Xdebug -Xrunjdwp:server=y,transport=dt_socket,address=8000,suspend=n \
-jar target/myapplication-0.0.1-SNAPSHOT.jar
```

From <<https://docs.spring.io/spring-boot/docs/2.0.x/reference/html/using-boot-running-your-application.html>>

```
$ java -jar myproject-0.0.1-SNAPSHOT.jar --debug
```

From <<https://docs.spring.io/spring-boot/docs/2.0.x/reference/html/boot-features-spring-application.html>>

```
$ java -jar myapp.jar --spring.application.json='{"name":"test"}'
```

From <<https://docs.spring.io/spring-boot/docs/2.0.x/reference/html/boot-features-external-config.html>>

```
$ java -jar myproject.jar --spring.config.name=myproject
```

From <<https://docs.spring.io/spring-boot/docs/2.0.x/reference/html/boot-features-external-config.html>>

```
$ java -jar myproject.jar --spring.config.location=classpath:/default.properties,classpath:/override.properties
```

From <<https://docs.spring.io/spring-boot/docs/2.0.x/reference/html/boot-features-external-config.html>>

Step-by-step installation of kafka services

22 March 2024 21:25

Installation of kafka on windows/linux

<https://www.javatpoint.com/installation-of-apache-kafka>

Creating Kafka Topics

<https://www.javatpoint.com/creating-kafka-topics>

To start the zookeeper server

/c/EDS/kafka_2.12-3.7.0->bin/windows/zookeeper-server-start.bat config/zookeeper.properties

To start the kafka server/Broker:

/c/EDS/kafka_2.12-3.7.0->bin/windows/kafka-server-start.bat config/server.properties

Creation of topic:

1. Not to use the --zookeeper instead use --bootstrap-server
2. Not to use localhost:2181 but localhost:9092 where kafka server listens in 9092 port.

/cygdrive/c/EDS/kafka_2.12-3.7.0->bin/windows/kafka-topics.bat --create --bootstrap-server localhost:9092 --partitions 1 --replication-factor 1 --topic ms-eventstore-inbox-topic

Created topic ms-eventstore-inbox-topic.

To start Producer:

C:\kafka-2.12\bin\windows>kafka-console-consumer.bat --bootstrap-server localhost:9092--topic test --from-beginning

Topic creation With multi partition with replication factor 1

C:\kafka-2.12\bin\windows>kafka-topics --zookeeper localhost:2181--topic first_topic --create --partitions 3--replication-factor 1

From <<https://stackoverflow.com/questions/53428903/zookeeper-is-not-a-recognized-option-when-executing-kafka-console-consumer-sh>>

To get the list of topic created in system

/cygdrive/c/EDS/kafka_2.12-3.7.0->kafka-topics.bat --bootstrap-server localhost:9092 --list

testD1

To get the description of the topic created in system:

/cygdrive/c/EDS/kafka_2.12-3.7.0->kafka-topics.bat --describe --bootstrap-server localhost:9092 --topic ms-eventstore-inbox-topic

Topic: testD1 TopicId: Z5Ua546PSzy0BQLVxk86cA PartitionCount: 1 ReplicationFactor: 1 Configs:

Topic: testD1 Partition: 0 Leader: 0 Replicas: 0 Isr: 0

To delete the Topic created in the system

kafka-run-class.bat kafka.admin.TopicCommand --delete --topic ms-eventstore-inbox-topic --bootstrap-server localhost:9092

From <<https://stackoverflow.com/questions/53428903/zookeeper-is-not-a-recognized-option-when-executing-kafka-console-consumer-sh>>

/cygdrive/c/EDS/kafka_2.12-3.7.0->kafka-topics.bat --describe --bootstrap-server localhost:9092

Topic: laxTopic TopicId: uh04BlchTbaEKcVqGE1KqA PartitionCount: 1 ReplicationFactor: 1 Configs:

Topic: laxTopic Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: testD1 TopicId: Z5Ua546PSzy0BQLVxk86cA PartitionCount: 1 ReplicationFactor: 1 Configs:

Topic: testD1 Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: __consumer_offsets TopicId: fNUsuW7fTUeqDLjmRnxHeA PartitionCount: 50 ReplicationFactor: 1 Configs: compression.type=producer,cleanup.policy=compact,segment.bytes=104857600

/cygdrive/c/EDS/kafka_2.12-3.7.0->bin/windows/kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic testD1 --from-beginning

From <<https://stackoverflow.com/questions/53428903/zookeeper-is-not-a-recognized-option-when-executing-kafka-console-consumer-sh>>

To write the event on Topic laxTopic

/cygdrive/c/EDS/kafka_2.12-3.7.0->kafka-console-producer.bat --topic ms-eventstore-inbox-topic --bootstrap-server localhost:9092

>This is my first event

>Always great to work with Temenos

>Terminate batch job (Y/N)? Y

To read the events from Topic laxTopic:

/cygdrive/c/EDS/kafka_2.12-3.7.0->kafka-console-consumer.bat --topic ms-eventstore-inbox-topic --from-beginning --bootstrap-server localhost:9092

This is my first event

Always great to work with Temenos

Processed a total of 2 messages

Terminate batch job (Y/N)? Y

KAFKA References:

<https://kafka.apache.org/quickstart>

<https://kafka.apache.org/documentation/#connect> - Document on Streaming with examples

<https://kafka.apache.org/documentation/>

Writing kafka events downloading into file:

/path/to/kafka-console-consumer --bootstrap-server ... --topic ... --partition 9 --offset 1060 --max-messages 1 > file.out

From <<https://stackoverflow.com/questions/66891430/how-to-download-a-kafka-message-into-a-file>>

kafkacat -b broker:9092 -t my_topic -p 9 -o 1060 -c1

From <<https://stackoverflow.com/questions/66891430/how-to-download-a-kafka-message-into-a-file>>

kafkacat -b broker:9092 -t my_topic -p 9 -o 1060 -c1 > myfile.txt

From <<https://stackoverflow.com/questions/66891430/how-to-download-a-kafka-message-into-a-file>>

=====

Process to clear the logs in both zookeeper and server are:

1. Make sure to stop zookeeper.
 2. Take a look at your server.properties file and locate the logs directory under the following entry.
Example:
log.dirs=/tmp/kafka-logs/
 3. Delete the log directory and its contents. Kafka will recreate the directory once it's started again.
 4. Take a look at the zookeeper.properties file and locate the data directory under the following entry.
Example:
dataDir=/tmp/zookeeper
 5. Delete the data directory and its contents. Zookeeper will recreate the directory once it's started again.
 6. Start zookeeper.
-
7. <KAFKA_HOME>/bin/zookeeper-server-start.sh -daemon <KAFKA_HOME>/config/zookeeper.properties
 8. Start the kafka broker.
<KAFKA_HOME>/bin/kafka-server-start.sh -daemon <KAFKA_HOME>/config/server.properties
 9. Verify the broker has started with no issues by looking at the logs/kafkaServer.out log file.
 10. Find and edit the line log.dirs to log.dir

From <<https://stackoverflow.com/questions/47168342/kafka-1-0-stops-with-fatal-shutdown-error-logs-directory-failed>>

=====

Topic creation errors:

<https://stackoverflow.com/questions/53428903/zookeeper-is-not-a-recognized-option-when-executing-kafka-console-consumer-sh>

<https://stackoverflow.com/questions/58376644/error-while-executing-kafka-on-port-2181-topic-command-timed-out-waiting-for>

<https://stackoverflow.com/questions/71866910/error-in-zookeeper-unreasonable-length-308375649-when-creating-topic-in-kafk>

lausvn.temenosgroup.com credentials

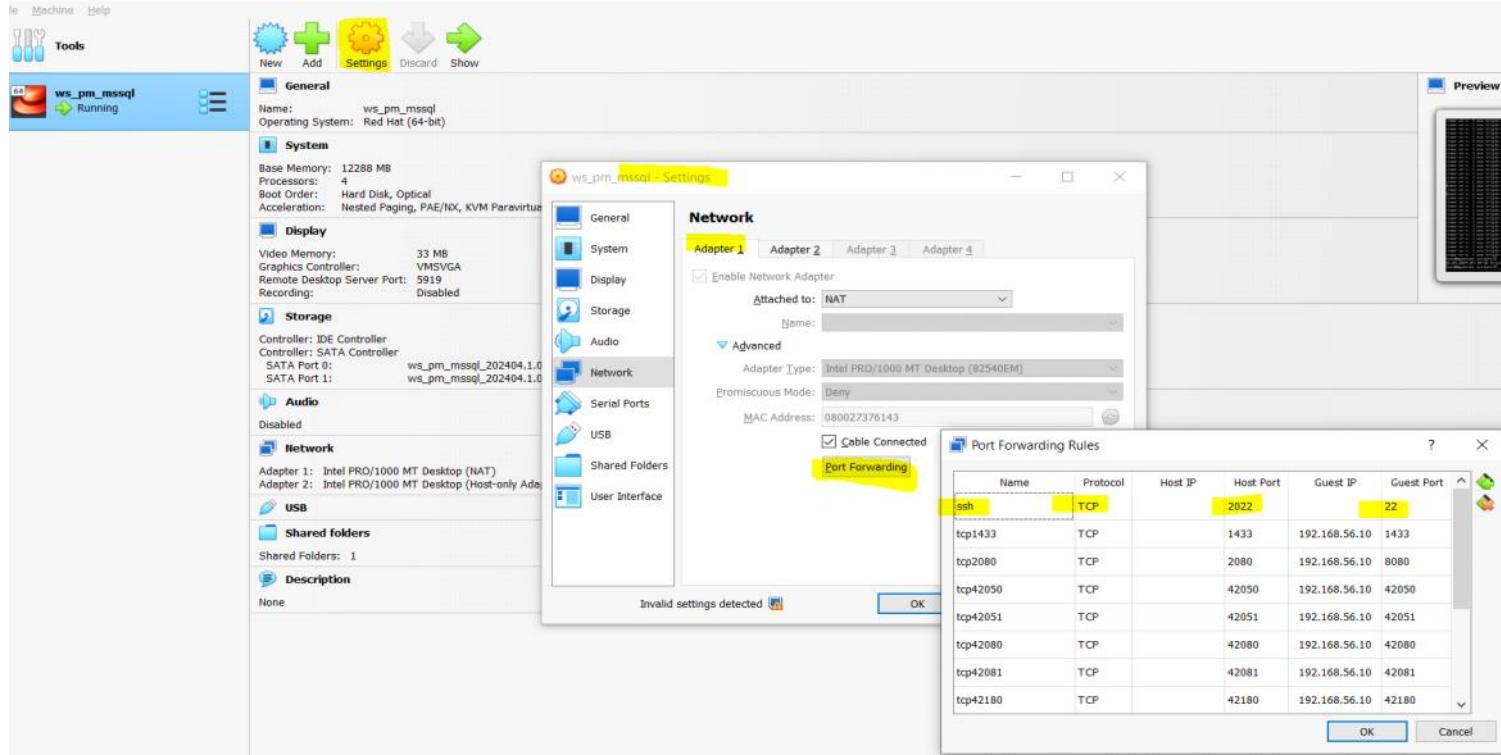
01 April 2024 11:16

https://lausvn.temenosgroup.com/svn-devel/internal/ENV/Deployment/TA/ta_deployer
cmtadmin/Cmt@admin2009

Virtualbox or VM utilities

26 March 2024 11:50

To find the port numbers for different services, navigate using below steps.



Building vcpkg procedure

Monday, April 1, 2024 8:38 PM

```
/w/vcpkg->git clone https://github.com/Microsoft/vcpkg.git .
Cloning into '!'...
remote: Enumerating objects: 228171, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 228171 (delta 0), reused 1 (delta 0), pack-reused 228168
Receiving objects: 100% (228171/228171), 69.62 MiB | 14.19 MiB/s, done.
Resolving deltas: 100% (151367/151367), done.
Updating files: 100% (11248/11248), done.
```

```
/w/vcpkg->./bootstrap-vcpkg.sh
```

```
Downloading https://github.com/microsoft/vcpkg-tool/releases/download/2024-03-14/vcpkg.exe -> W:\vcpkg\vcpkg.exe... done.
Validating signature... done.
```

```
vcpkg package management program version 2024-03-14-7d353e869753e5609a1f1a057df3db8fd356e49d
```

See LICENSE.txt for license information.

Telemetry

vcpkg collects usage data in order to help us improve your experience.

The data collected by Microsoft is anonymous.

You can opt-out of telemetry by re-running the bootstrap-vcpkg script with -disableMetrics,
passing --disable-metrics to vcpkg on the command line,
or by setting the VCPKG_DISABLE_METRICS environment variable.

Read more about vcpkg telemetry at docs/about/privacy.md

```
/w/vcpkg->./vcpkg integrate install
```

Applied user-wide integration for this vcpkg root.

CMake projects should use: "-DCMAKE_TOOLCHAIN_FILE=W:/vcpkg/scripts/buildsystems/vcpkg.cmake"

All MSBuild C++ projects can now #include any installed libraries. Linking will be handled automatically. Installing new libraries will make them instantly available.

```
/w/vcpkg->./vcpkg install librdkafka
```

Computing installation plan...

The following packages will be built and installed:

```
librdkafka:x64-windows@2.3.0
* lz4:x64-windows@1.9.4#1
* vcpkg-cmake:x64-windows@2023-05-04
* vcpkg-cmake-config:x64-windows@2022-02-06#1
```

Additional packages (*) will be modified to complete this operation.

Detecting compiler hash for triplet x64-windows...

A suitable version of powershell-core was not found (required v7.2.16) Downloading portable powershell-core 7.2.16...

Downloading powershell-core...

testdata import step manually

02 April 2024 20:01

Repository - https://bitbucket.temenos.com/projects/TWS/repos/ta-test/browse/test_data

Command:

```
aaahome> ./call_setup_TA_from_scratch.sh $AAAHOME aaa aaaaaa manager INT_E2E_EURCPY OAMS_STATUS BATCH 64 ME-TTI false false
```

```
echo "\nUsage : $0 aaahome aaa_owner aaa_owner_passwd sa_passwd environ_name status_type mode financial_server_mode test_data_scope add_ud_fields
exec_eval_entity_tests\n"
echo " aaahome      = Home directory of Triple'A application"
echo " aaa_owner     = Triple'A Application Owner"
echo " aaa_owner_passwd = Triple'A Application Owner Password"
echo " sa_passwd     = Sybase System Administrator Password"
echo " environ_name   = Environment Name of Triple'A in the aaa_install.cfg file"
echo " status_type    = OAMS_STATUS or CUSTOMER_STATUS"
echo " mode          = BATCH or INTERACTIVE"
echo " financial_server_mode = Financial Server Mode, 32 or 64 (bits)"
echo " test_data_scope = Test Data Scope: DEV/VAL/LAB/..."
echo " add_ud_fields  = Add user defined fields on all available entities: true/false"
echo " exec_eval_entity_tests = Execute eval_entity tests after importing: true/false"
echo "
```

=====

/oams/jenkins/jobs/cmt.00_env_jobs_full_refresh/workspace/targets_list

ta_testdata_import.xml calls common/import_dataset.xml contains **call_setup_TA_from_scratch.sh**

=====
test data distribution - https://wealth.temenosgroup.com/delivery/incoming_packages/TA/29.5.05/test_data/TA_29.5.05_TestData.tar.gz

```
./call_setup_TA_from_scratch.sh /oams/v_e2e_ora/aaa/current v_e2e_oraaaa v_e2e_oraaaaav_e2e_oraaaa manager V_E2E_ORA OAMS_STATUS BATCH 64 ME-TTI
false false &
```

for non Mesi use DEV or VAL. Better to use VAL scope as its data is updated

=====

cmsbm@lauxcmt:/nas/delivery/incoming_packages/TA/202404.1.0/test_data/TA_202404.1.0_TestData.tar.gz

```
export AAAHOME='/oams/CIP_LX_ORA_JB1/aaahome'; export SA_USER=sys && export SA_PASSWD=manager;
```

```
> cd '/oams/CIP_LX_ORA_JB1/aaahome/..//test_data/202404.1.0';
> rm -rf tmp;
> ./cleanup.sh;
> ./call_setup_TA_from_scratch.sh '/oams/CIP_LX_ORA_JB1/aaahome' aaa aaaaaa manager CIP_LX_ORA_JB1 OAMS_STATUS BATCH 64
AUTOMATOR false false 2>&1; exit $?
```

From <https://lauxcmtvm.temenosgroup.com/view/CIP/view/DEV.0.0/view/CIP_LX_ORA_JB1/view/CIP_LX_ORA_JB1_Summary/job/env.CIP_LX_ORA_JB1.03_install_from_scratch/868/consoleFull#ant-target-88>

Wealthsuite documentation portal.

05 April 2024 17:01

[Wealth Suite \(temenos.com\)](#)

Outbox Introduction:

[Introduction \(temenos.com\)](#)

Outbox Configuration details guide:

[Configuration \(temenos.com\)](#)

[Temenos](#)

etc hosts/networks/protocol/services path in windows linux

08 April 2024 11:55

windows:

c:\Windows\System32\Drivers\etc\hosts.

c:\Windows\System32\Drivers\etc\networks
c:\Windows\System32\Drivers\etc\protocol
c:\Windows\System32\Drivers\etc\services

From <https://www.google.com/search?q=etc+hosts+path+in+windows&sc_esp=55d6234f4c88031b&source=hp&ei=v40Tzva6B46N2roPzI60kAI&iflsig=ANes7DEAAAAAzhObzyS915oSkNDIRv-0L26CvpOsZRJd&oq=etc%2Fhosts+path+in+&gs_lp=Egdnd3Mtd2l6lhJldGMvaG9zdHMgcGF0aCBpbIAqAggAMgYQABgWGB4vBhAAGBYYHjIGEAAYFhgeMgYQABgWGB4vCBAAGBYYHhgPMrYQABgWGB4vBhAAGBYYHjILEAAygAQYigUYhgMvCxAAGIAEGloFjIYDmgsQABiABBiKBRIGA0icL1AAWOMdcAB4AJABAzeBjgKgAbwSqeFOS43LiK4AOHQIAQQ4AQGYAHGAtsQwgjLEAAYgAQYsQMYrwHCagsQLhiABBixAxIDAcICBRAAGIAEwgjLEAAYgAQYsQPCAg4QABiABBiKBRixAxIDAcICERAuGIAEGLEDGIMBGmCBGNEDwgjOEC4YxwEySQMYQ0QMYgATCAgsQLhiABBiKBRixA8jCDhAuGIAEGLEDGIMBGOUeWgjNEAAYgAQYsQMYRhj7AZgDAJIBTkuNi4voAe3iAE&scclient=gws-wiz

```
# Copyright (c) 1993-2009 Microsoft Corp.  
#  
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.  
#  
# This file contains the mappings of IP addresses to host names. Each  
# entry should be kept on an individual line. The IP address should  
# be placed in the first column followed by the corresponding host name.  
# The IP address and the host name should be separated by at least one  
# space.  
#  
# Additionally, comments (such as these) may be inserted on individual  
# lines or following the machine name denoted by a '#' symbol.  
#  
# For example:  
#  
#   102.54.94.97  rhino.acme.com      # source server  
#   38.25.63.10   x.acme.com        # x client host  
  
# localhost name resolution is handled within DNS itself.  
#   127.0.0.1    localhost  
#   ::1          localhost  
192.168.56.32  ta-oracle-host.temenosgroup.com  
localhost      LF4JZYD3.temenosgroup.com
```

Linux:

RapidJason Parser

Saturday, April 20, 2024 6:58 PM

[Tencent/rapidjson: A fast JSON parser/generator for C++ with both SAX/DOM style API \(github.com\)](https://github.com/Tencent/rapidjson)

libxlsxwriter build step - github

24 April 2024 15:09

github login

User: laxmishhegde@temenos.com

Password: Advani!11

Using CMake for Microsoft Visual Studio

For a more manual installation, and for older versions of Microsoft Visual Studio or Windows, you can use CMake as shown below.

Open a Windows CMD or Command Window and set up your MSVC environment, if required. Something like this:

```
"C:\Program Files (x86)\Microsoft Visual Studio\2019\Community\VC\Auxiliary\Build\vcvars64.bat"
```

Or:

```
"C:\Program Files (x86)\Microsoft Visual Studio\2019\Enterprise\VC\Auxiliary\Build\vcvars64.bat"
```

Then create a work directory and an install directory that the include and library files will be installed to. Set the followvariables to point to the directories:

```
set WORK_DIR=C:/Users/savitha.mb/tmp  
set INSTALL_DIR=C:/Users/savitha.mb/tmp/install_dir
```

Build the Zlib library:

```
cd %WORK_DIR%
```

```
git clone https://github.com/madler/zlib.git
```

```
cd zlib
```

```
mkdir build
```

```
cd build
```

```
cmake .. -G "Visual Studio 17 2022" -DCMAKE_INSTALL_PREFIX:PATH="%INSTALL_DIR%/zlib"
```

```
cmake --build . --config Release --target install
```

Build the libxlsxwriter library:

```
cd %WORK_DIR%
```

```
git clone https://github.com/jmcnamara/libxlsxwriter.git
```

```
cd libxlsxwriter
```

```
mkdir build
```

```
cd build
```

```
cmake .. -G "Visual Studio 17 2022" -DCMAKE_INSTALL_PREFIX:PATH="%INSTALL_DIR%/libxlsxwriter" -DZLIB_ROOT:STRING="%INSTALL_DIR%/zlib"
```

```
cmake --build . --config Release --target install
```

1.create new project under solution directory using console application c++(later rename to .c)

2. link include and src directories in right click properties file

3. change platform toolset to VS 2017(v141)

Edit the application properties:

Project

-> ConsoleApplication Properties

Set the libxlsxwriter include path to match the path used above:

Configuration Properties

-> C/C++

-> General

-> Additional Include Directories

Set it to the following (or similar path used above):

```
C:\Users\savitha.mb\tmp\install_dir\libxlsxwriter\include
```

Configuration Properties

- > Linker
- > General
- > Additional Library Directories

Add the following (or similar paths used above):

C:\Users\savitha.mb\temp\install_dir\zlib\lib

C:\work_dir\zlib\build\Release

C:\Users\savitha.mb\temp\install_dir\libxlsxwriter\lib

Configuration Properties

- > Linker
- > Input
- > Additional Dependencies

Add the following:

xlsxwriter.lib

zlib.lib

place dll if missing in C:\work_dir\libxlsxwriter\build\x64\Debug

check output in this path:

C:\work_dir\libxlsxwriter\ConsoleApplication1>HelloWorld.xlsx

Bitbucket push error due to network

03 May 2024 17:45

```
/w/TA/develop->git push --set-upstream origin WEALTH-7564
Enumerating objects: 1330, done.
Counting objects: 100% (1330/1330), done.
Delta compression using up to 12 threads
Compressing objects: 100% (761/761), done.
error: RPC failed; HTTP 500 curl 92 HTTP/2 stream 7 was not closed cleanly: INTERNAL_ERROR (err 2)
send-pack: unexpected disconnect while reading sideband packet
Writing objects: 100% (1176/1176), 1.91 MiB | 1.71 MiB/s, done.
Total 1176 (delta 552), reused 812 (delta 332), pack-reused 0
fatal: the remote end hung up unexpectedly
```

/w/TA/develop->git config --global http.postBuffer 157286400

```
/w/TA/develop->git push --set-upstream origin WEALTH-7564
Enumerating objects: 1330, done.
Counting objects: 100% (1330/1330), done.
Delta compression using up to 12 threads
Compressing objects: 100% (761/761), done.
Writing objects: 100% (1176/1176), 1.91 MiB | 19.58 MiB/s, done.
Total 1176 (delta 554), reused 812 (delta 332), pack-reused 0
remote: Resolving deltas: 100% (554/554), completed with 131 local objects.
remote:
remote: Create pull request for WEALTH-7564:
remote: https://bitbucket.temenos.com/users/laxmishhegde/repos/ta/pull-requests?create&sourceBranch=refs%2Fheads%2FWEALTH-7564
remote:
To https://bitbucket.temenos.com/scm/~laxmishhegde/ta.git
 * [new branch]    WEALTH-7564 -> WEALTH-7564
branch 'WEALTH-7564' set up to track 'origin/WEALTH-7564'.
=====
```

On Linux

Execute the following in the command line before executing the Git command:

```
exportGIT_TRACE_PACKET=1
exportGIT_TRACE=1
exportGIT_CURL_VERBOSE=1
```

On Windows

Execute the following in the command line before executing the Git command:

```
set GIT_TRACE_PACKET=1
set GIT_TRACE=1
set GIT_CURL_VERBOSE=1
In addition:
git config --global core.compression 0
git clone --depth 1 <repo_URI>
# cd to your newly created directory
git fetch --unshallow
git pull --all
```

From <<https://stackoverflow.com/questions/66366582/github-unexpected-disconnect-while-reading-sideband-packet>>

What finally helped was [this tip](#). Go to your user directory and edit .git/config and add:

```
[core]
  packedGitLimit = 512m
  packedGitWindowSize = 512m
[pack]
  deltaCacheSize = 2047m
  packSizeLimit = 2047m
  windowMemory = 2047m
```

From <<https://stackoverflow.com/questions/66366582/github-unexpected-disconnect-while-reading-sideband-packet>>

git config --global http.version HTTP/1.1

From <<https://stackoverflow.com/questions/66366582/github-unexpected-disconnect-while-reading-sideband-packet>>

Refer to the below URL for all the recommendation:

<https://stackoverflow.com/questions/66366582/github-unexpected-disconnect-while-reading-sideband-packet>

Search format and extensions outbox_publish_e update sql

13 May 2024 10:32

```
use cip_lx_mss6;
select * from aaamaindb.format where nature_e=14;

update aaamaindb.format_element set outbox_publish_e=1
where format_id in (select id from aaamaindb.format where nature_e=14);

update aaamaindb.format_element set outbox_publish_e=1 where format_id in
(select id from aaamaindb.format where code in ('PCK_PREC_INSTR_EXP','PCK_PREC_PTF_EXP','PCK_RMT_INSTR','PCK_RMT_PTF'));
```

TCP keepalive timeout command

16 May 2024 18:01

1. netstat -o | grep -i "timeout"
2. sysctl net.ipv4.tcp_keepalive_time sysctl net.ipv4.tcp_keepalive_intvl sysctl net.ipv4.tcp_keepalive_probes

Http message intercept monitoring tools

18 May 2024 23:23

<https://confluence.temenos.com/display/DEVWIKI/How+to+send+http+request+to+financial+server+using+postman>

[https://confluence.temenos.com/display/ARCH/LAB+Activities#LABActivities-ForTAPCclients\(GUI,aaa_sql,...\)](https://confluence.temenos.com/display/ARCH/LAB+Activities#LABActivities-ForTAPCclients(GUI,aaa_sql,...))

Capture HTTP Traffic

Without changing client or server

[Wireshark](#)

Using embeded traces it TAP Financial server

using \$AAAHOME/congig/log4cplus.properties (hot reloaded) or TWAC

activate the logger TripleA.Access.Server in Trace mode

and check in the httpAccess.log appendrer

Using a Client proxy

Using a regular proxy like ZAP, Burp Suite Community Edition, Fiddler2, mitmproxy, ...

For TAP C clients (GUI, aaa_sql,...)

define the environment variable e.g.

AAAHTTPCLIENTPROXY=localhost:8888

From <[https://confluence.temenos.com/display/ARCH/LAB+Activities#LABActivities-ForTAPCclients\(GUI,aaa_sql,...\)](https://confluence.temenos.com/display/ARCH/LAB+Activities#LABActivities-ForTAPCclients(GUI,aaa_sql,...))>

User_type=1 in appl_param LN11350/PMSTA-236

22 May 2024 11:40

Corrected in version R 4.20.0 Alpha.0 è

Exists since version è

Origin of bug è

Impact of change at client's site (binary, SQL proc, ...) gui.exe, New model_constr_elt DV, filter and IC, New ApplMag ERR_SC_MinMaxNull è

Impact on other OAMS products (Gateway, Live!Report, ...) Triple'A Advantage è

Impact on client's documentation ? no

Changes in documentation

References to other Notes incidents

FAQ's Known Bugs list Not Reviewed è

FAQ's possible workaround for this incident

Official answer (used for Release Notes) DDB 04.09.06 : not finished so moved to 4.30 & 4.20.1 into JIRA

Analyst's information :

YST - 04/08/05

Improvements for OCS - corresponding to system parameter USER_TYPE = 1

This is the full analysis, including analysis, screenshots and sketches and test scenario sections.

Filter modifications (marked by FM1, 2, 3) are already done in R4.12.1.

Analysis

1. Allocation constraints: Enable administration (enter, modify, delete) of Allocation Constraints expressed in amount in TA.
See also Screen section with some examples of allocation constraints in a screensketch.

PCK_PM_CNSTR_EDT_ALL format is currently used for constraint administration.

Enable the administration of constraints expressed in amount. => metadict, DB and fin. server modifications necessary; HIF should be fine

If Fixed-cell is flagged to fixed (-2), then erase bound nature, min and max value and currency. Currently only bound nature value is erased (see line on DEM in screen hereunder).

If bound nature is percentage then the currency field is not editable.

If percentage bound nature is chosen then erase currency value.

DB and Metadict modifications:

Attribute ext_strategy_element.constr_bound_nature_e must be editable. => metadict modif

It must be possible to select currency in Edit Allocation Constraint screen (based on ext_strategy_element table).

Further technical analysis necessary. => DB modif? (YST/PRO - 03/01/06: No DB modif, just use one of the existing currency fields in ext_strategy_element table.)

Fin. server modifications:

When click "save" then constraint bound nature and currency must be saved in model constraint element table. If bound nature is percentage or fixed cell is fixed, then do not save currency field. Further technical analysis necessary.

2. Security-In constraints: Show only the attributes used in OCS in TA administration screens.

DV/filter modifications:

Following permitted values are showed in administration screen:

FM1 - If instrument dimension is list (dim_instr_dict_id = 400) then show in Constraint Bound Nature "amount" and "percentage" (constr_bound_nat_e = 1, 2). (quantity as no business meaning)

GUI modifications:

Following attributes of model_constr_elt table are not showed in administration screen:

Constraint Treatment - constr_treat_e

Priority - priority_n

Input control:

If Security-In is defined for an instrument list containing a notional instrument, then print message
"Creating Security-In constraint on instrument list containing a notional instrument is not allowed."

If Security-In constraint is defined with quantity for a notional instrument, then print message.

"Creating Security-In constraint defined in quantity on a notional instrument is not allowed."

3. Security-Out constraints: Show only the permitted values used in OCS for some attributes in TA administration screens.

DV/filter modifications:

Following permitted values are not showed in administration screen:

FM2 - Constraint Treatment - constr_treat_e: do not show "Check Only" permitted value (=3)
FM1 - Constraint Bound Nature - constr_bound_nat_e: do show only "quantity" permitted value (=3)

Input control:

If Security-Out is defined for a notional instrument, then print message
"Creating Security-Out constraint on a notional instrument is not allowed."

4. Trading constraints: Show only the attributes and permitted values used in OCS for some attributes in TA administration screens.

DV/filter modifications:

FM3 - Application Field - application_field_f (either do not show this attribute at all, or filter on permitted value and show only "Single Instrument" permitted value (=1))

Following permitted values are showed in administration screen:

FM1 - If instrument dimension is list (dim_instr_dict_id = 400) then show in Constraint Bound Nature "amount" and "percentage" (constr_bound_nat_e = 1, 2). (quantity as no business meaning)

GUI modifications:

Following attributes of model_constr_elt table are not showed in administration screen:

Constraint Treatment - constr_treat_e

Fixed Cell - fixed_cell_f

Priority - priority_n

Input control:

If Trading is defined for notional instrument or an instrument list containing a notional instrument, then print message
"CreatingTrading constraint on notional or instrument list containing a notional is not allowed."

5. Trading constraint menu: Do not show Trading constraint menu anymore.

In TA: Productivity -> Constraint menu we currently have:

Trading Constraint

Modelling Constraint

Strategy Derivation

Modifications:

Change name for "Trading Constraint" to "Unstructured Trading Constraints".

Change name for "Modelling Constraint" to "Structured Constraints".

Screens (current and new)

Edit Allocation constraint screen

Edit Allocation constraint screen (NEW)

Case 1, Case 2 and Case 3 are old cases which are already coded. Case 4 and Case 5 are new. It is also possible to have a minimum and maximum (Case 2 & 3; Case 4 & 5).

Create Security-In constraint screen

Create Security-Out constraint screen

Create Trading constraint screen

Test Scenarios

1. Allocation Constraints:

Triple'A:

a) Allocation Constraint on a portfolio: Create constraint in amount, update constraint in amount (modif min, max, currency), delete constraint in amount
b) Allocation Constraint on a portfolio list: Create constraint in amount, update constraint in amount (modif min, max, currency), delete constraint in amount
Ok if creation, update and delete is possible and correct.

HIF:

c) Upload Allocation Constraints in amount on a portfolio to HEART

d) Upload Allocation Constraints in amount on a portfolio list to HEART

Ok if constraints are in HEART.

OCS:

e) Launch Constraint View on a portfolio or portfolio universe which has Allocation Constraints in amount

Ok, if constraints are displayed

f) Launch Compliance Checking on a portfolio which has Allocation Constraints in amount

g) Launch Rebalancing on a portfolio which has Allocation Constraints in amount

Ok if Optimisation Process takes into account constraints.

2., 3. and 4. Security-in, Security-Out and Trading Constraints: test GUI modifications by creating constraints.

Ok, if unused attributes are not showed anymore.

HistoryWho When
é 04.08.2005

tap explorer references

23 May 2024 11:29

<https://developer.temenos.com/uux/docs/components/overview/.>

[Getting Started | webpack](#)

TAP Explorer data model

TAP Explorer is a js application running in the browser

Data used to render the application is either persisted in the browser session or reloaded on-demand.

Transient information like metamodel is loaded on demand and stored in components.

However, navigation path or currently edited record is stored in session.

Persisted data

```
```mermaid
classDiagram
 class Workspace {
 +String name
 +Boolean split
 -List~NavigationPanel~
 + getPanels() List~NavigationPanel~
 + getPanelAt(index: Number) NavigationPanel
 + getMergedPanel() NavigationPanel
 + clear()
 }

 class NavigationPanel {
 +Number currentIndex
 -List~Navigator~
 +getNavigators() List~Navigator~
 }

 class Navigator {
 -String identifier
 -Date creationDate
 -String sqlName
 -Number currentState
 -List~State~ states
 }

 class State {
 -String sqlName
 -String component
 -String action
 }

 class FindSelectState {
```

```
+String filter
}

class ViewEditState {
 -Record identifier
 +Boolean editable
}

Workspace *-- NavigationPanel
NavigationPanel *-- Navigator
Navigator *-- State
State <|-- FindSelectState
State <|-- ViewEditState
```

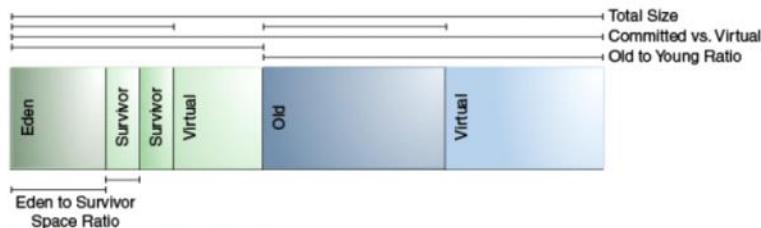
...

# jvm options - jre command line arguments - increase the heap size

29 May 2024 18:50

-vmargs -Xms128m -Xmx2048m -XX:MaxHeapFreeRatio=40 -XX:MinHeapFreeRatio=20

<https://docs.oracle.com/javase/10/gctuning/factors-affecting-garbage-collection-performance.htm#JSGCT-GUID-5508674B-F32D-4B02-9002-D0D8C7CDDC75>



Description of "Figure 4-1 Heap Options"

## Default Option Values for Heap Size

By default, the virtual machine grows or shrinks the heap at each collection to try to keep the proportion of free space to live objects at each collection within a specific range.

This target range is set as a percentage by the options `-XX:MinHeapFreeRatio=<minimum>` and `-XX:MaxHeapFreeRatio=<maximum>`, and the total size is bounded below by `-Xms<min>` and above by `-Xmx<max>`. The default options for the 64-bit Solaris operating system (SPARC Platform Edition) are shown in Table 4-1.

Table 4-1 Default Options for 64-Bit Solaris Operating System

Option	Default Value
<code>-XX:MinHeapFreeRatio</code>	40
<code>-XX:MaxHeapFreeRatio</code>	70
<code>-Xms</code>	6656 KB
<code>-Xmx</code>	calculated

/cygdrive/w/EDSW/develop/cip\_lx\_mss6/admin->java -X

<code>-Xbatch</code>	disable background compilation
<code>-Xbootclasspath/a:&lt;directories and zip/jar files separated by ;&gt;</code>	append to end of bootstrap class path
<code>-Xcheck:jni</code>	perform additional checks for JNI functions
<code>-Xcomp</code>	forces compilation of methods on first invocation
<code>-Xdebug</code>	provided for backward compatibility
<code>-Xdiag</code>	show additional diagnostic messages
<code>-Xfuture</code>	enable strictest checks, anticipating future default
<code>-Xint</code>	interpreted mode execution only
<code>-Xinternalversion</code>	displays more detailed JVM version information than the <code>-version</code> option
<code>-Xloggc:&lt;file&gt;</code>	log GC status to a file with time stamps
<code>-Xmixed</code>	mixed mode execution (default)
<code>-Xmn&lt;size&gt;</code>	sets the initial and maximum size (in bytes) of the heap for the young generation (nursery)
<code>-Xms&lt;size&gt;</code>	set initial Java heap size
<code>-Xmx&lt;size&gt;</code>	set maximum Java heap size
<code>-Xnoclassgc</code>	disable class garbage collection
<code>-Xrs</code>	reduce use of OS signals by Java/VM (see documentation)
<code>-Xshare:auto</code>	use shared class data if possible (default)

-Xshare:off	do not attempt to use shared class data
-Xshare:on	require using shared class data, otherwise fail.
-XshowSettings	show all settings and continue
-XshowSettings:all	

show all settings and continue

-XshowSettings:locale

show all locale related settings and continue

-XshowSettings:properties

show all property settings and continue

-XshowSettings:vm

show all vm related settings and continue

-XshowSettings:system

(Linux Only) show host system or container

configuration and continue

-Xss<size>

set java thread stack size

-Xverify

sets the mode of the bytecode verifier

--add-reads <module>=<target-module>(<target-module>)\*

updates <module> to read <target-module>, regardless

of module declaration.

<target-module> can be ALL-UNNAMED to read all unnamed

modules.

--add-exports <module>/<package>=<target-module>(<target-module>)\*

updates <module> to export <package> to <target-module>,

regardless of module declaration.

<target-module> can be ALL-UNNAMED to export to all

unnamed modules.

--add-opens <module>/<package>=<target-module>(<target-module>)\*

updates <module> to open <package> to

<target-module>, regardless of module declaration.

--illegal-access=<value>

permit or deny access to members of types in named modules

by code in unnamed modules.

<value> is one of "deny", "permit", "warn", or "debug"

This option will be removed in a future release.

--limit-modules <module name>[,<module name>...]

limit the universe of observable modules

--patch-module <module>=<file>(<file>)\*

override or augment a module with classes and resources

in JAR files or directories.

--disable-@files disable further argument file expansion

--source <version>

set the version of the source in source-file mode.

# Crypto ssl error while bringing up financial server

11 June 2024 15:52

```
val@aulxqasrv1:/oams/m_rhel_ora_1/aaa/current/std_admin/scripts$ stop_allsrv.sh
07_09_2022 13:15:14 Begin of script stop_allsrv.sh
/oams/m_rhel_ora_1/aaa/current/aaaprofile: line 48: /oams/m_rhel_ora_1/aaa/current/test.imp: Permission denied
07_09_2022 13:15:14 Clean-Up log files older than 30 days in /oams/m_rhel_ora_1/aaa/current/std_admin/log/stop_allsrv
07_09_2022 13:15:14 No APPL_OWNER_PASSWD defined
/oams/m_rhel_ora_1/aaa/current/aaaprofile: line 48: /oams/m_rhel_ora_1/aaa/current/test.imp: Permission denied
DATE : 2022/09/07 13:15:14
VERSION : R28.0.03 2022-Sep-07 07:32:40 (LIN64) 0308299
TYPE : GENERAL SQL_INFO : //
USER :
SYS LOGIN : HOSTNAME : aulxqasrv1.temenosgroup.com
FILE : src/aaysql.c LINE : 1731
MESSAGE : Unhandled exception:Cryptographic exception in /prod_ref/int/multi-scm/TA/cmake/28.0.03/triplea_core/interop/src/crypto-openssl.cpp at line 990
```

From <<http://rd.temenosgroup.com/browse/PMSTA-50042>>

Update aaaprofile with  
AAACIPHERCODEC=AES256-GCM  
export AAACIPHERCODEC

Put clear password in all 3 sections in pass\_store.properties

Bring up the financial server.

## Ocs login session related source files

13 June 2024 14:15

./otf-shell/src/main/java/com/odcgroup/otf/shell/Login.java  
./otf-security/src/main/java/com/odcgroup/otf/security/impl/SecurityManagerBase.java  
w/OCS/develop/otf/otf-security/src/main/java/com/odcgroup/otf/security/impl

./tsl-fc-comm/src/main/java/com/odcgroup/OpenTA/service/AdminLoginService.java

./otf-security/src/main/java/com/odcgroup/otf/security/impl/AuthenticationController.java:  
Bootstrap.remote.AuthenticatorServiceHelper

logger.warn("Login failed for user : '{}', username);

# Converting iso to utf8

13 June 2024 18:45

```
iconv -f iso-8859-1 -t UTF-8 $TMP_FILE
```

# KEEP KEEP\_DV NULL\_DV NULL Keywords for export and import

18 June 2024 18:16

The NULL keyword sets the field to the null value. It does not allow the default values to be used for the field.

The NULL\_DV keyword sets the field to the null value and allows the default values to be used for the field.

The KEEP keyword sets the field to the old value. It does not allow the default values to be used for the field (even the old value was NULL).

The KEEP\_DV keyword sets the field to the old value and allows the default values to be used for the field.

# Devtools path and different tools

19 June 2024 11:23

<\\temenosgroup.com\wealth\devtools>

<\\temenosgroup.com\wealth\devtools\Windows\Microsoft> Visual C++ 2010 SP1 Redistributable Package (x64)

# TAP Design specifications - Template

Wednesday, July 17, 2024 6:08 PM

<\\lausanshare\OldPublic\ADVANTAG\ANALYSIS\Templates>

Design Spec Temp Français.doc

Design Specifications Template.doc

meta\_dict\_editor.xlt

C:\d\Laxmish Hegde\TAP Docs\01. Triple'A+\01. Business\CRTAP227 – Implement – Advanced Constraint Management\Presentation\CRTAP227 – Implement – Advanced Constraint Management.pptx

# Usage of DynSt to JsonString

18 July 2024 22:32

```
std::vector<DBA_DYNFLD_STP> resultDynStpVector;
resultDynStpVector.push_back(shDbaDynStp);
std::string resultString;

BuildBindOption outputBindOption(BuildBindOption::Categ::AllFields);

DBA_GetJSonStringFromDynStp(resultDynStpVector,
 resultString, outputBindOption, *dbiConnectionHelper.getConnection());
```

# Duplicate rank\_n error due to mb or ud attribute

23 July 2024 22:12

```
use int_e2e_grcsq;
select * from int_e2e_grcsq_aaamaindb.xd_entity where sqlname_c='third_chrono'; -- 344
select * from int_e2e_grcsq_aaamaindb.xd_attribute where xd_entity_id=344 order by sqlname_c; --3263
select * from int_e2e_grcsq_aaamaindb.dict_perm_value where name='external pension investment';
select * from int_e2e_grcsq_aaamaindb.xd_label where name='number of voting rights';
select * from int_e2e_grcsq_aaamaindb.dict_label;
delete from int_e2e_grcsq_aaamaindb.xd_label where id=47842;
select * from int_e2e_grcsq_aaamaindb.xd_label where name='external pension investment';
select * from int_e2e_grcsq_aaamaindb.xd_entity_feature;
select * from int_e2e_grcsq_aaamaindb.xd_entity where sqlname_c='third_chrono'; --344, 601
select * from int_e2e_grcsq_aaamaindb.xd_attribute where id=3319;
delete from int_e2e_grcsq_aaamaindb.xd_entity where id=344;
select * from int_e2e_grcsq_aaamaindb.dict_attribute where entity_dict_id=601;
delete from int_e2e_grcsq_aaamaindb.xd_perm_value where xd_attrib_id=3319;
select * from int_e2e_grcsq_aaamaindb.xd_perm_value where id in (1326,7566);
select * from int_e2e_grcsq_aaamaindb.xd_attribute_custo where xd_attribute_id in (1326,7566);
commit;
select * from int_e2e_grcsq_aaamaindb.third_chrono;
select * from int_e2e_grcsq_aaamaindb.package_definition;
select * from int_e2e_grcsq_aaamaindb.package_installation_compo where package_entity_id=601;

select * from int_e2e_grcsq_aaamaindb.dict_perm_value where name in ('number of voting rights');
select * from int_e2e_grcsq_aaamaindb.xd_entity_feature where xd_entity_id=344;
delete from int_e2e_grcsq_aaamaindb.xd_entity_feature where xd_entity_id=344;
select * from int_e2e_grcsq_aaamaindb.package_installation_compo where key_c like '%external pension%';
delete from int_e2e_grcsq_aaamaindb.package_composition where id in (447);
select * from int_e2e_grcsq_aaamaindb.package_composition where key_c like '%third_chrono%';
=====
select * from int_e2e_grcsq_aaamaindb.package_composition where key_c like '%ext_mifid_cursts_mb1%';
delete int_e2e_grcsq_aaamaindb.package_composition where id=272;
select * from int_e2e_grcsq_aaamaindb.package_installation_compo where key_c like '%ext_mifid_cursts_mb1%';
delete int_e2e_grcsq_aaamaindb.package_installation_compo where id=6;
```

# Stack overflow exception in main function

06 August 2024 16:32

When there is stack overflow exception while starting the process, check all the macros declared and constant size declared. Reduce the size of that and then rebuild, execute. It will execute.

The screenshot shows a code editor with a C/C++ file open. The code includes standard library headers like stdio.h, stdlib.h, and time.h, along with a custom header aes256.hpp. A macro BUFFER\_SIZE is defined as 1024\*1024. The main function is shown, with the first line containing a breakpoint (indicated by a red circle) and a call to srand. A tooltip window titled "Exception Unhandled" appears over the breakpoint, stating: "Unhandled exception at 0x00007FF73CF44747 in encrypt.exe: 0xC00000FD: Stack overflow (parameters: 0x0000000000000001, 0x000000B538263000)". Below the code editor, a "Call Stack" window is visible, showing the stack trace: "encrypt.exe!\_chkstk() Line 109" and "encrypt.exe!main(int argc, char \*\* argv) Line 39 [External Code]".

```
23
24 #include <stdio.h>
25 #include <stdlib.h>
26 #include <time.h>
27
28 #include "aes256.hpp"
29
30 #define BUFFER_SIZE 1024*1024
31
32 #if defined(__APPLE__)
33 # define fseeko64 fseeko
34 #elif defined(_MSC_VER)
35 # define fseeko64 _fseeki64
36 #endif
37
38 int main(int argc, char **argv)
39 {
40 ByteArray key, enc;
41 size_t file_len;
42
43 FILE *input, *output;
44
45 srand(time(0));
46
47 if (argc != 4) {
48 fprintf(stderr, "Missing argument\n");
```

BUFFER\_SIZE reduced to size 2. Running successfully.

```
--
24 #include <stdio.h>
25 #include <stdlib.h>
26 #include <time.h>
27
28 #include "aes256.hpp"
29
30 #define BUFFER_SIZE 2*1024
31
32 #if defined(__APPLE__)
33 # define fseeko64 fseeko
34 #elif defined(_MSC_VER)
35 # define fseeko64 _fseeki64
36 #endif
37
38 int main(int argc, char **argv)
39 {
40 ByteArray key, enc;
41 size_t file_len;
42
43 FILE *input, *output;
44
45 srand(time(0));
46
47 if (argc != 4) {
48 fprintf(stderr, "Missing argument\n");
00 % No issues found Call Stack alllib, 78 days ago | 1 author, 1 change
```

Find Symbol Results Call Stack  
Search (Ctrl+E) ↗ ← → View all Threads Show External Code  
Name  
encrypt.exe!main(int argc, char \*\* argv) Line 45  
[External Code]

# Sybase deadlock detection and object identification

23 August 2024 16:32

1. sp\_who
  - a. Get all the sessions
2. sp\_lock <object\_id>
3. Select \* from sysobjects where id=<table\_id>;

```

File Edit View Database SQL Commander Tools Window Help
Databases Scripts Favorites
Connections
 V_SQL_MB2
 V_E2E_25_3
 S_ABN_TEST
 V_SQL_MB3
 D_M25_UNI
 V_SQL_HB1
 master
 sysystemdb
 sysystemprocs
 tempdb
 v_sql_mb1_aaologndb
 v_sql_mb1_aaamandb (Default)
 v_sql_mb1_aarepd
 v_sql_mb1_permitslbd
 v_sql_mb1_tempstsldb
 SD_2104_3B
 V_SQL_C_23_2
 SD_ABN_R16
 S_ABN_TAP
 V_TL_23_SQL
 AAB_POC
 ABN_TMN

Database Connection
 Sticky Database
 v_sql_mb1_aaamandb
 Schema
 dbo
 Max Rows -1
 Max Chars -1

35
36 select function_result_id, parent_oper_nat_e, count(*) as total from ext_operation
37 where function_result_id in (select id from function_result where code='advisor00032166')
38 group by function_result_id, parent_oper_nat_e order by function_result_id, parent_oper_nat_e;
39
40 select * from function_result where code='advisor00032096';
41 sp_who;
42
43 sp_lock 205;
44
45 select * from sysobjects where id=1449769191;
46
47 select * from tasc_job;
48 select * from tjo_00004013320739;
49
50 select list_build_history_id,count(*) from list_build_history_compo where entity_dict_id=800 group by list_build_history_id;
51
52 select * from list_build_history where id=140076400833...
43:10 [1417] INS
 Log 1: sp_lock 205 [51]

```

*	fd	spid	lqid	locktype	table_id	partitionid	page	row	dbname	class	context
1	0	205	410 Sh_intent		28	0	0	0	tempdb	Non Cursor Lock	
2	0	205	410 Sh_row		28	0	29954	83	tempdb	Non Cursor Lock	
3	0	205	410 Ex_table	1651985412	0	0	0	0	tempdb	Non Cursor Lock	
4	0	205	410 Ex_intent	1449769191	0	0	0	0	v_sql_mb1_aaamandb	Non Cursor Lock	
5	0	205	410 Ex_row	1449769191	0	76853	6	v_sql_mb1_aaamandb	Non Cursor Lock		
6	0	205	410 Ex_row	1449769191	0	76853	7	v_sql_mb1_aaamandb	Non Cursor Lock		
7	0	205	410 Ex_row	1449769191	0	76853	8	v_sql_mb1_aaamandb	Non Cursor Lock		
8	0	205	410 Ex_row	1449769191	0	76853	9	v_sql_mb1_aaamandb	Non Cursor Lock		
9	0	205	410 Ex_row	1449769191	0	76853	10	v_sql_mb1_aaamandb	Non Cursor Lock		
10	0	205	410 Ex_row	1449769191	0	76853	11	v_sql_mb1_aaamandb	Non Cursor Lock		
11	0	205	410 Ex_row	1449769191	0	76853	12	v_sql_mb1_aaamandb	Non Cursor Lock		
12	0	205	410 Ex_row	1449769191	0	76853	13	v_sql_mb1_aaamandb	Non Cursor Lock		
13	0	205	410 Ex_row	1449769191	0	76853	14	v_sql_mb1_aaamandb	Non Cursor Lock		

*	fd	spid	lqid	locktype	table_id	partitionid	page	row	dbname	class	context
1	0	205	410 Sh_intent		28	0	0	0	tempdb	Non Cursor Lock	
2	0	205	410 Sh_row		28	0	29954	83	tempdb	Non Cursor Lock	
3	0	205	410 Ex_table	1651985412	0	0	0	0	tempdb	Non Cursor Lock	
4	0	205	410 Ex_intent	1449769191	0	0	0	0	v_sql_mb1_aaamandb	Non Cursor Lock	
5	0	205	410 Ex_row	1449769191	0	76853	6	v_sql_mb1_aaamandb	Non Cursor Lock		
6	0	205	410 Ex_row	1449769191	0	76853	7	v_sql_mb1_aaamandb	Non Cursor Lock		
7	0	205	410 Ex_row	1449769191	0	76853	8	v_sql_mb1_aaamandb	Non Cursor Lock		
8	0	205	410 Ex_row	1449769191	0	76853	9	v_sql_mb1_aaamandb	Non Cursor Lock		
9	0	205	410 Ex_row	1449769191	0	76853	10	v_sql_mb1_aaamandb	Non Cursor Lock		
10	0	205	410 Ex_row	1449769191	0	76853	11	v_sql_mb1_aaamandb	Non Cursor Lock		
11	0	205	410 Ex_row	1449769191	0	76853	12	v_sql_mb1_aaamandb	Non Cursor Lock		
12	0	205	410 Ex_row	1449769191	0	76853	13	v_sql_mb1_aaamandb	Non Cursor Lock		
13	0	205	410 Ex_row	1449769191	0	76853	14	v_sql_mb1_aaamandb	Non Cursor Lock		



# Package level meta dictionary compilation issues

04 September 2024 12:00

- Msg ERROR: Creating ddl objects on entity tsl\_perm\_value
  - Attribute ext\_mifid\_cur\_sts\_mb: the data-type must be defined
- Msg ERROR: Creating ddl objects on entity tsl\_perm\_value
  - Attribute ext\_mifid\_cursts\_mb1: the data-type must be defined
- Msg ERROR: Creating ddl objects on entity tsl\_perm\_value
  - Attribute ext\_mifid\_rvw\_sts\_mb: the data-type must be defined
- Msg ERROR: Creating ddl objects on entity tsl\_perm\_value
  - Invalid Data type for attribute ext\_mifid\_cur\_sts\_mb
- Msg ERROR: Creating ddl objects on entity tsl\_perm\_value
  - Invalid Data type for attribute ext\_mifid\_cursts\_mb1
- Msg ERROR: Creating ddl objects on entity tsl\_perm\_value
  - Invalid Data type for attribute ext\_mifid\_rvw\_sts\_mb

Msg ERROR: Creating ddl objects on entity tsl\_perm\_value - Check and fix imported data failed!

```
=====
SQL> alter session set current_schema=d_e2e_dev3_aaamaindb;
SQL> select * from xd_attribute where sqlname_c='ext_mifid_cur_sts_mb';
SQL> select * from package_composition where key_c like '%ext_mifid_rvw_sts_mb%';
SQL> delete package_composition where key_c like '%ext_mifid_rvw_sts_mb%';
SQL> commit;
```

=====
*Check the entries in the following tables:*

1. Package\_composition
2. Package\_definition
3. Package\_entity
4. Package\_installation
5. Package\_installation\_compo

```
=====
$AAAHOME/pck/mb/PCK_MB_ESP_/package_definition_PCK_MB_ESP__3.0.0.imp
$AAAHOME/pck/mb/PCK_MB_EUR_/package_definition_PCK_MB_EUR__3.0.0.imp
```

# Sybase system tables for issue diagnosis

04 September 2024 18:20

```
sysobjects
Select * from sysprocesses;
Select * from sysqueryplans;
syssessions
Sysroles
Sysservers
Syssrvroles
Sysattributes
Sysconfigures
sysdepends
Sysoptions
```

# Tracing or monitoring system or kernel level online logs

05 September 2024 09:41

```
>dmesg -w
>/var/log/messages file contains log
>journalctl --system -f
```

- ```
=====
```
- /proc/sys/* is a mechanism for the user (you) to read/write details from the heart of Linux (the kernel and associated drivers etc). A cute example of a r/w item is "[IP forwarding](#)":
Read: cat /proc/sys/net/ipv4/ip_forward (0 is off, 1 is on)
Write: echo 1 > /proc/sys/net/ipv4/ip_forward
As with kcore, this isn't a real file. But it acts like one. So when you write to it, you're actually changing software settings as opposed to bytes on a disk.
 - /proc/meminfo and /proc/cpuinfo are read-only. You can cat or less them, or fopen() from your own application. They show you details about your hardware (memory and CPU).
 - /proc/[0-9]+ are actually *process IDs* running on your machine! These are (IMHO) by far the coolest feature of /proc. Inside them you will find more fake files like cmdline which tell you what command was used to start the process.

From <<https://stackoverflow.com/questions/21170795/proc-kcore-file-is-huge>>

<https://temenosgroup.sharepoint.com/sites/SalesEnablementCloud/Templates/Forms/type.aspx>

Wednesday, November 07, 2018 9:47 AM

Oralce System Parameter Modification Steps

12 August 2022 14:18

```
oracle@laulxcmt2:/oams/oracle/product/12.1.0.2/main
sqlplus / as sysdba
show parameter processes --> 300
select count(*) from v$open_cursor where cursor_type='OPEN'; --> 963
ALTER SYSTEM SET open_cursors = 1200 SCOPE=MEMORY;
alter system set processes=600 scope=spfile;
SHUTDOWN IMMEDIATE
create pfile from spfile;
Startup
```

```
export LOCAL_DIR=/u01/oracle/tmp/vb.name
export ORACLE_SID=DLX
export ORACLE_MEM=4096
export ORACLE_GDB=$ORACLE_SID
sqlplus / as sysdba
SQL> alter system set processes=600 scope=spfile;
System altered.
SQL> ALTER SYSTEM SET open_cursors = 1200 SCOPE=spfile;
System altered.
SQL> SHUTDOWN IMMEDIATE
Database closed.
Database dismounted.
ORACLE instance shut down.
SQL> STARTUP
ORACLE instance started.
Total System Global Area 4294967296 bytes
Fixed Size          5291928 bytes
Variable Size       3405774952 bytes
Database Buffers    855638016 bytes
Redo Buffers        28262400 bytes
Database mounted.
Database opened.
SQL> exit
Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
```

Verification

```
oracle:torlnxdev6:DLX:/u01/app/oracle>more ./product/12.1.0.2/dbhome_1/dbs/spfileDLX.ora
C"
e_size=0
DLX.__db_cache_size=973078528
```

```
DLX.__java_pool_size=67108864
DLX.__large_pool_size=1124073472
DLX.__oracle_base='/u01/app/oracle'#ORACLE_BASE set from environment
DLX.__pga_aggregate_target=1493172224
DLX.__sga_target=2801795072
DLX.__shared_io_pool_size=67108864
DLX.__shared_pool_size=536870912
DLX.__streams_pool_size=0
*.audit_file_dest='/u01/app/oracle/admin/DLX/adump'
*.audit_trail='db'
*.compatible='12.1.0.2.0'
*.control_files='/wmsuite01/oradata/C
*.db_block_size=8192
*.db_domain=""
*.db_name='DLX'
*.diagnostic_dest='/u01/app/oracle'
*.dispatchers='(PROTOCOL=TCP) (SERVICE=DLXXDB)'
*.enable_pluggable_database=true
*.memory_target=4096m
*.open_cursors=1200
*.processes=600
*.remote_login_passwordfile='EXCLUSIVE'
*.undo_tablespace='UNDOTBS1'
=====
=====
```

From <<http://rd.temenosgroup.com/browse/CMT-10514>>

Installation of git on Unix

Monday, February 7, 2022 10:04 PM

CMT-12291

```
$ yum remove git
Removed:
git.x86_64 0:1.8.3.1-6.el7_2.1
Dependency Removed:
gettext-devel.x86_64 0:0.18.2.1-4.el7    intltool.noarch 0:0.50.2-6.el7
perl-Git.noarch 0:1.8.3.1-6.el7_2.1
Complete!
$ cd /usr/local/src
wget https://mirrors.edge.kernel.org/pub/software/scm/git/git-2.14.5.tar.gz
tar xf git-2.14.5.tar.gz
cd git-2.14.5
./configure && make && make install
[...]
/usr/bin/perl Makefile.PL PREFIX=/usr/local' INSTALL_BASE=' --localedir='/usr/local/share/locale'
Can't locate ExtUtils/MakeMaker.pm in @INC (@INC contains: /usr/local/lib64/perl5 /usr/local/share/perl5 /usr/lib64/perl5/vendor_perl /usr/lib64/perl5 /usr/share/perl5 .) at Makefile.PL line 3.
BEGIN failed--compilation aborted at Makefile.PL line 3.
make[1]: *** [perl.mak] Error 2
make: *** [perl/perl.mak] Error 2
$ yum install -y perl-ExtUtils-MakeMaker
[...]
Installed:
perl-ExtUtils-MakeMaker.noarch 0:6.68-3.el7
Dependency Installed:
gdbm-devel.x86_64 0:1.10-8.el7
libdb-devel.x86_64 0:5.3.21-24.el7
perl-ExtUtils-Install.noarch 0:1.58-292.el7
perl-ExtUtils-Manifest.noarch 0:1.61-244.el7
perl-ExtUtils-ParseXS.noarch 1:3.18-3.el7
perl-devel.x86_64 4:5.16.3-292.el7
pyparsing.noarch 0:1.5.6-9.el7
systemtap-sdt-devel.x86_64 0:3.2-8.el7_5
Dependency Updated:
libdb-devel.x86_64 0:5.3.21-24.el7    libdb-utils.x86_64 0:5.3.21-24.el7
Complete!
$ ./configure && make && make install
```

From <<http://rd.temenosgroup.com/browse/CMT-12291>>

```
$ yum install -y libcurl-devel
[...]
Installed:
libcurl-devel.x86_64 0:7.29.0-51.el7
Dependency Updated:
curl.x86_64 0:7.29.0-51.el7      libcurl.x86_64 0:7.29.0-51.el7
nspr.x86_64 0:4.19.0-1.el7_5      nss.x86_64 0:3.36.0-7.el7_5
nss-pem.x86_64 0:1.0.3-5.el7      nss-softokn.x86_64 0:3.36.0-5.el7_5
nss-softoken-freebl.x86_64 0:3.36.0-5.el7_5  nss-sysinit.x86_64 0:3.36.0-7.el7_5
nss-tools.x86_64 0:3.36.0-7.el7_5  nss-util.x86_64 0:3.36.0-1.el7_5
Complete!
```

From <<http://rd.temenosgroup.com/browse/CMT-12291>>

```
$ service atlbitbucket start
Starting Atlassian Bitbucket as dedicated user atlbitbucket
Starting bundled Elasticsearch
    Hint: Run start-bitbucket.sh --no-search to skip starting Elasticsearch
Bundled Elasticsearch started successfully
Bitbucket is being run with a umask that contains potentially unsafe settings.
The following issues were found with the mask "u=rwx,g=rwx,o=r" (0002):
- Access is allowed to 'others'. It is recommended that 'others' be denied
all access for security reasons.
- Write access is allowed to 'group'. It is recommended that 'group' be
denied write access. Read access to a restricted group is recommended
to allow access to the logs.
The recommended umask for Bitbucket is "u=g=w,o=rwx" (0027) and can be
configured in _start-webapp.sh
The current open files limit is set to less than 4096
Attempting to increase limit...
    Limit increased to 4096 open files
Starting Bitbucket webapp at http://localhost:7990
The Bitbucket webapp has been started.
If you cannot access Bitbucket within 3 minutes, or encounter other issues, check the troubleshooting guide at:
https://confluence.atlassian.com/display/BitBucketServerKB/Troubleshooting+Installation
$ firewall-cmd -add-port=7990/tcp
success
$ firewall-cmd -add-port=7990/tcp --permanent
success
$ ps auxww | grep '[b]itbucket' # FYI
atlbitb+ 26774 14.8 0.7 5406404 248828 pts/0 Sl 11:05 0:09 /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.121-0.b13.el7_3.x86_64/jre/bin/java -Xms256m -Xmx1g -Djava.awt.headless=true -XX:+UseParNewGC -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -XX:+UseCMSInitiatingOccupancyOnly -XX:+HeapDumpOnOutOfMemoryError -XX:+DisableExplicitGC -Dfile.encoding=UTF-8 -Djna.nosys=true -Des.path.home=/oams/bitbucket/elasticsearch -cp /oams/bitbucket/elasticsearch/lib/elasticsearch-2.3.1.jar:/oams/bitbucket/elasticsearch/lib/* org.elasticsearch.bootstrap.Elasticsearch start -d -p /oams/data/bitbucket/elasticsearch.pid -
Dpath.conf=/oams/data/bitbucket/shared/search -Dpath.logs=/oams/data/bitbucket/log/search -Dpath.data=/oams/data/bitbucket/shared/search/data
atlbitb+ 26799 293 3.2 6087444 1066276 pts/0 Sl 11:05 3:04 /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.121-0.b13.el7_3.x86_64/jre/bin/java -classpath /oams/bitbucket/app -Datlassian.standalone=BITBUCKET -Dbitbucket.home=/oams/data/bitbucket -Dbitbucket.install=/oams/bitbucket -Xms512m -Xmx1g -XX:+UseG1GC -Dfile.encoding=UTF-8 -Dsun.jnu.encoding=UTF-8 -Djava.io.tmpdir=/oams/data/bitbucket/tmp -Djava.library.path=/oams/bitbucket/lib/native;/oams/data/bitbucket/lib/native com.atlassian.bitbucket.internal.launcher.Bitbu cketServerLauncher start
$ grep -h 'Max open files' /proc/[26774,26799]/limits | sort -t # FYI
Max open files      4096      4096      files
```

From <<http://rd.temenosgroup.com/browse/CMT-12291>>

```

$ yum install -y postgresql-server
[...]
Installed:
postgresql-server.x86_64 0:9.2.24-1.el7_5
Dependency Installed:
postgresql.x86_64 0:9.2.24-1.el7_5
Complete!
$ systemctl enable postgresql
Created symlink from /etc/systemd/system/multi-user.target.wants/postgresql.service to /usr/lib/systemd/system/postgresql.service.
$ systemctl start postgresql
Job for postgresql.service failed because the control process exited with error code. See "systemctl status postgresql.service" and "journalctl -xe" for details.
$ systemctl status -l postgresql
● postgresql.service - PostgreSQL database server
   Loaded: loaded (/usr/lib/systemd/system/postgresql.service; enabled; vendor preset: disabled)
     Active: failed (Result: exit-code) since Mon 2018-11-26 11:19:51 CET; 21s ago
   Process: 27466 ExecStartPre=/usr/bin/postgresql-check-db-dir ${PGDATA} (code=exited, status=1/FAILURE)

Nov 26 11:19:51 vmlaulxtest.temenosgroup.com postgresql-check-db-dir[27466]: Executing: /usr/bin/postgresql-check-db-dir /var/lib/pgsql/data
```

From <<http://rd.temenosgroup.com/browse/CMT-12291>>

\$ sudo yum install gdb -y

```

[mpadmin@appserver1ap-slikrtt0izy] log]$ vi aaa_upgrade.R202410.0.log_summary
[mpadmin@appserver1ap-slikrtt0izy] log]$ sudo yum install gdb -y
Loaded plugins: langpacks, product-id, search-disabled-repos, yum_rhui_plugin
azure-cli
rhel-7-server-ansible-2-rhui-rpms
rhel-7-server-dotnet-rhui-rpms
rhel-7-server-rhui-extras-rpms
rhel-7-server-rhui-optional-rpms
rhel-7-server-rhui-rh-common-rpms
rhel-7-server-rhui-rpms
rhel-7-server-rhui-supplementary-rpms
rhel-server-rhui-rhacel-7-rpms
rhui-microsoft-azure-rhel7
(1/2): rhel-7-server-dotnet-rhui-rpms/7Server/x86_64/updateinfo | 1.5 kB 00:00:00
(2/2): rhel-7-server-dotnet-rhui-rpms/7Server/x86_64/primary_db | 4.0 kB 00:00:00
rhel-7-server-rhui-rpms/7Server/x86_64/primary_db | 4.0 kB 00:00:00
rhel-7-server-rhui-rpms/7Server/x86_64/primary_db | 3.4 kB 00:00:00
rhel-7-server-rhui-optional-rpms/7Server/x86_64/primary_db | 3.2 kB 00:00:00
rhel-7-server-rhui-extras-rpms/7Server/x86_64/primary_db | 3.8 kB 00:00:00
rhel-7-server-rhui-rh-common-rpms/7Server/x86_64/primary_db | 3.5 kB 00:00:00
rhel-7-server-rhui-rhacel-7-rpms/7Server/x86_64/primary_db | 3.4 kB 00:00:00
rhel-7-server-rhui-rhacel-7-rpms/7Server/x86_64/primary_db | 3.5 kB 00:00:00
rhui-microsoft-azure-rhel7/7Server/x86_64/primary_db | 1.5 kB 00:00:00
rhui-microsoft-azure-rhel7/7Server/x86_64/primary_db | 105 kB 00:00:00
rhui-microsoft-azure-rhel7/7Server/x86_64/primary_db | 551 kB 00:00:00
Nothing to do
[mpadmin@appserver1ap-slikrtt0izy] log]$
```

Spfile pfile in oracle creation

23 July 2023 07:27

Spfile refers to Server Parameter file(*spfile\$ORACLE_SID.ora*). Server parameter files are binary files that exist only on the server and are called from client locations to start up the database. Since spfile is a binary file we cannot edit the file directly rather we need to use ALTER SYSTEM SET parameter to modify/update the parameters.

You must have the SYSDBA or the SYSOPER system privilege to create spfile. You can execute this statement before or after instance startup. However, if you have already started an instance using spfile_name, you cannot specify the same spfile_name in this statement.

```
CREATE SPFILE='$PATH/spfile_name' FROM PFILE='$PATH/pfile_name';
```

Pfile refers to Parameter file(*init\$ORACLE_SID.ora*). Pfile is a text file created from spfile, used to get a list of the current parameter setting being used by the database. We can easily edit the pfile using editor like vi and applied to the database by creating spfile from the pfile. You must have the SYSDBA or the SYSOPER system privilege to create pfile. We can execute this statement either before or after instance startup.

```
CREATE PFILE='$PATH/pfile_name' FROM SPFILE='$PATH/spfile_name';
```

A simple pfile will just have a path to the spfile

```
oracle@node1# cat init$ORACLE_SID.ora  
SPFILE=/$PATH/spfile$ORACLE_SID.ora
```

Both the spfile and pfile are located in the following path by default:

for windows : \$ORACLE_HOME/database

for LINUX : \$ORACLE_HOME/dbs

During database startup, Oracle scans the above mentioned directories in the following order:

- spfile\$ORACLE_SID.ora
- spfile.ora
- init\$ORACLE_SID.ora
- init.ora

If oracle is unable to find these files, then the startup will fail.

We can also govern the DB start by manually defining the PFILE path:

```
SQL> startup pfile='$PATH/init$ORACLE_SID.ora';
```

Following command can be used to find the current parameter setting / value

```
SQL > SHOW PARAMETERS
```

To display all parameters with the text SGA

```
SQL > SHOW PARAMETERS SGA
```

```
SQL> show parameters sga
```

```
NAME TYPE VALUE
```

```
-----  
lock_sga boolean FALSE
```

```
pre_page_sga boolean FALSE
```

```
sga_max_size big integer 39G
```

```
sga_target big integer 39G
```

We can also use v\$parameter to find the current parameter setting / value

```
SQL> select name,value from v$parameter where name='sga_target';
```

```
NAME VALUE
```

```
-----  
sga_target 41875931136
```

V\$SYSTEM_PARAMETER is the view which shows instance level parameters. A new session inherits parameter values from the instance-wide values.

```
SQL> select name,value from v$system_parameter where name = 'sga_target';
```

```
NAME VALUE
```

```
-----  
sga_target 41875931136
```

v\$parameter view – session based / local setting

v\$system_parameter view – instance based / global setting

Dynamic Parameters :

Some initialization parameters are dynamic, that is, they can be modified using the ALTER SESSION (valid for that session) or ALTER SYSTEM statements while an instance is running and doesn't require a instance restart.

From <<https://www.linkedin.com/pulse/what-spfile-pfile-how-create-from-vice-versa-thirunavukkarasu/>>